

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105

SEPTEMBER 25, 1995

Tim Murphy
Nevada Division of Environmental Protection
333 West Nye Lane
Carson City, NV 89710

Dear Mr. Murphy:

Enclosed please find the report for the U.S. EPA RCRA inspection conducted at 21-EMI on March 1, 1995.

Please notice that the facility's response to the potential violations discussed at the outbriefing is included in the report as Attach. M.

If there are any questions about this report, please contact Jean Daniel of my staff at (415) 744-2128.

Thank you.

Sincerely,

Arlene Kabei, Chief Compliance Monitoring and Enforcement Section

Encl.

cc: Ms. Jolaine Johnson, Chief

Bureau of Waste Management, NV DEP (w/o Encl.)

Reading File (H-4-1)



RCRA Inspection Report

U.S. Environmental Protection Agency, Reg. 9

Hazardous Waste Management Division

Waste Compliance Branch

Purpose:

RCRA Compliance Evaluation

Inspection

Facility Inspected:

21st Century EMI

a.k.a. ETICAM

Location:

2095 Newlands Drive East

Fernley, NV 89408

EPA ID Number:

NVD980895338

Date of Inspection:

March 1, 1995

Inspection Team:

Jean Daniel (415) 744-2128

Inspector & Compliance Officer

U.S. EPA, Reg. 9

Duong Nguyen

Environmental Engineer

U.S. EPA, Reg. 9

Ron Brown

Inspector & Compliance Officer

U.S. EPA, Reg. 9

Tim Murphy Supervisor,

RCRA Compliance & Enforcement Nevada Div. of Env. Protection

Nancy Alvarez

RCRA Permitting Branch

Nevada Div. of Env. Protection

Facility Representatives:

Patrick Enochs, CHMM/CET

Facility Manager (702) 575-2760

Mickey Lawler

Environmental Manager

800-648-9931

Photographer:

Duong Nguyen

Report by:

Jean Daniel

RCRA CEI 3/1/95 21-EMI, NV

INTRODUCTION

BACKGROUND:

Documents included in this report may refer to the facility by two different names. ETICAM has merged with two facilities in New York: Chemical Pollution Control and Gray Martin Metals Recovery. The merger resulted in a name change from ETICAM to 21st Century Environmental Management, Inc. (21-EMI). Staff managing U.S. EPA, Region 9's RCRA activities tracking system (RCRIS) received a notice of the change of name and made the change. However, the permit issued to the facility by the Nevada Division of Environmental Protection (NVDEP) includes conditions which have not yet been completed before the transfer of ownership and the new name can be approved. Therefore, on the day of this RCRA inspection, the facility's legal name was ETICAM.

PERMIT STATUS:

On February 28, 1985, the facility submitted a Part A and Part B Permit application to NVDEP and U.S. EPA, Region 9. On December 24, 1986, the facility received a RCRA hazardous waste facility Permit (#NEVHW001) issued by NVDEP for the treatment and storage of liquid and sludge metallic wastes for metals recovery. A renewal application, with subsequent modifications, is currently being reviewed by the State.

The Permit was revised November 19, 1990, to include Class II modifications. One of the modifications explains why Interim Status was granted to the units that handle the residue salt. It is included in Attachment 5, Section 8.0, Storage and Treatment Area. The second sentence on Page II-6 reads:

The effluent tanks and evaporation system are operating under interim status because the residue salt was subsequently reclassified a listed hazardous waste by the "Derived From" rule after the facility was in operation.

On August 8, 1990, under authority of 40 CFR 270.72 (a), NVDEP granted Interim Status to the process pertaining to the salt effluent described in their revised Part A dated November, 1989. The units where salt residues are generated, treated and stored under the RCRA Interim Status regulations are the effluent tanks, the sludge tanks of the evaporator/crystallizer unit, and the area in the Product Storage Pad where the salt residues are accumulated.

ETICAM WASTE ACCEPTANCE & TREATMENT PROCEDURES:

A revision of the waste acceptance criteria was submitted to NVDEP on December 30, 1994. A copy is included as Attach. I.

A description of the permitted treatment procedures is included in this report as Attach. A.

ETICAM AS A PRIMARY RECLAIMER OF METALS:

Liquid and sludge metallic wastes containing cyanide, acid or alkaline solutions are received from electroplating, electroless plating, metal finishing, electronics and aeronautics industries.

ETICAM is a treater of these wastes and not a recycler. The facility neutralizes, stabilizes and blends the incoming wastes. ETICAM compares the materials they ship off-site to smelters as being very similar to ores, fluxes and minerals that are considered commodities.

The facility currently has eight customers (smelters) for this material. Each specifies their own physical and metallurgical requirements. (See sample in Attach. G.) These smelters are the reclaimers of the metals and recover silver, gold, nickel, copper, chromium, lead, cadmium and zinc.

NVDEP allows ETICAM to store its treated sludge as a commodity as long as certain conditions are met. One of the conditions is that 75% of the material is removed from the Product Storage Pad within one year and not stored speculatively. Any that exceed the one year storage limit become hazardous waste and must be sent off-site within 90 days. (See State and ETICAM correspondence in Attach. B.)

ETICAM AS AN EXPORTER:

ETICAM began exporting its metallic product material in 1992. Canada requires that each shipment be classified and manifested as a hazardous waste.

PAST VIOLATIONS

A copy of the list of potential violations included in the report for the inspection of March 18, 1994 is included in this report as Attach C. There were no potential violations in the report of the September, 1994 inspection.

ON-SITE INSPECTIONS

A map of Fernley, NV, and a diagram of the facility are included in this report as Attach. D. Photos taken throughout this inspection are in Attach. E. Potential violations described in the following narrative are underlined.

IN-BRIEFING:

Pat Enochs, Facility Manager, provided information about changes that have occurred since he became the manager in February, 1994. He escorted the inspection team and answered questions throughout the day. Mickey Lawler, Environmental Manager, accompanied the inspectors several times during the day.

Marketing ETICAM's services:

The inspectors asked for copies of sales brochures to understand how their services were described to customers. Did they refer to themselves as recycler, or a reclaimer of metals?

Mr. Enochs provided a copy of a letter which is part of each package sent to potential customers (See Attach. F). It describes the services that ETICAM offers to hazardous waste generators. It includes the following statement:

Through ETICAM's treatment processes the material is reclaimed but must be reclaimed further before the intended recovery is complete. The resulting material from ETICAM's process is a concentrate which is commodity-like, however, not a commercial product even though there is a demand and need for ETICAM's material.

Correspondence from a smelter (Chemetco) in included as Attach. G.

Managing the Incoming Hazardous Waste:

The decision to accept a shipment of waste is made by the staff of the laboratory. It is based on the Permit, whether or not there is a current need for the metal concentrate and whether or not it is economically feasible to treat it to meet customer specifications. (An example of customer specifications: The ratio of nickel to chromium will be 12:1.) ETICAM has a Blending Agreement with NVDEP. The treatment and blending protocols are planned by the staff of the laboratory as part of the waste profile acceptance procedure. Waste profiles are rechecked when the shipment is received and if there is insufficient metals value the waste is sent off-site for land disposal.

Wastes that meet customer specifications are shipped to them with a hazardous waste manifest with the waste code F006. Any shipment to smelters in Arizona is sent with a manifest (F006) and a LDR form because Arizona will not accept the waste as non-RCRA regulated material. (See manifests in Attach. H.)

Potential for a New Process:

With NVDEP approval, ETICAM is preparing to conduct a "pilot test" on a recovery unit for mercury, D009. They anticipate

handling a wastestream from an EPA Superfund clean-up site in Oregon. The results of the tests will be forwarded to NVDEP.

FIELD INSPECTIONS:

The Laboratory

The permitted laboratory's fire extinguisher at the door was inspected and it had a current service date. Facility security monitoring devices were in the laboratory. One was a board with lights corresponding to the processes used to alert staff when alarms are set off. Another was a monitor which showed black and white views of the activities in the Receiving areas.

Truck Receiving Bay

The large indoor Truck Receiving Bay is located on the western end of the facility. The Bay was designed to receive and handle cyanide separately from acid and alkaline wastes. This is essential to prevent reactions which, with the appropriate pH conditions, could generate toxic fumes.

Originally only liquids were to be off-loaded in this Bay. Tanker trucks offload through a system of hoses into the storage or treatment tanks. NVDEP has since approved the storage of 80 cubic yards of incoming solids in the Bay.

The inspectors entered the Bay from the office area and found immediately left of the entry door an accumulation area for precious metals. (See Photo 1.) The hazardous waste labels on the drums indicated the contents as D002 (corrosive) with the earliest accumulation date as 1993. One label also listed D011 (silver). Mr. Enochs advised that the contents included friable silver and that the facililty was accumulating it until it had a sufficient amount to make treatment economically feasible. (The Permit does not limit the time to accumulate before treatment.)

The inspectors were told the western side of the Bay was impassable due to maintenance work. Two workmen were observed in a drain unclogging a pipe. A third man was above them observing and handling a light. All of the safety precautions for confined space work were being implemented. (See Photo 2.)

The incoming wastes were in labpacks, metal and poly drums. Some of the labels had been torn in transit. Some of the drums were quite worn and rusting. The water used to clean up any spills in the receiving Bay is from the City's water supply system or ETICAM's on-site make-up water that has been distilled and recycled. The heavy hoses used to feed the liquid wastes from the tanker trucks into the tank systems and the surface of the containment were in good condition.

The Adjacent Outdoor Yards

The inspectors exited out of the building to the yards south of the Truck Receiving Bay. The inspectors noticed equipment

covered with sludge located on the driveway near the Maintenance Storage Shed. See Photo 3. Mr. Enochs referred to the equipment as "the cage" and later identified the sludge as hydroxide, an in-process sludge, a RCRA-regulated waste. This equipment should be kept within the operational, contained areas to minimize the risk of releases to the environment.

The Driveway

ETICAM uses the driveways as 90-day accumulation yards for the roll-off bins. There were 10 bins on the driveway south and east of the facility on the day of the inspection. One of the bins located outside of the evaporator/crystallizer unit had a leak. See Photo 4. The bin was full of salt residues, an onsite generated hazardous waste. The waste codes on the label read F006, F009, F011, F012, D004, D005, D006, D007, D008, D009, D010, D011. There is no secondary containment under the roll-off bins on the driveways. Several areas of the driveways were worn or had minor cracks.

The Boneyard and Run-Off Pond

The yard south of the driveway was full of assorted construction equipment and empty containers of all types and in varying conditions. The inspectors looked at the Run-off pond east of the Boneyard. See Photo 7. The water collected within appeared to be clear and the liner was in good condition. The liquid accumulated may include run-off from the Boneyard. The inspectors were told the water is collected and used as make-up water in the processes.

The Storage Pad

The Pad is adjacent and north of the Pond. See Photos 8-21. The designed capacity of the Pad is 52 rows of 40 drums per row or 4,400 drums. It is surrounded by curbing and graded so that runoff collects in a sump in the southwest corner of the Pad. The inspectors watched the run-off into the sump during a rainshower and it appeared to be effective. The sump is emptied when full and the liquid is sent to the treatment system. There is no direct route for run-off from the Pad to enter into the adjacent pond.

Treated material is stored on the Pad in containers identified with batch numbers. See Photos 8 and 16. The internal tracking system interprets the codes within the batch numbers. Mr. Enochs explained the tracking system is rather complicated. Without it though, there is no way to know what is the concentrate of value to smelters, or the length of time the container has been in storage. If the container has exceeded the one-year storage time limit, it must be removed within the following 90 days.

Bags of treated material were found ruptured and leaking. See Photos 10, 15 and 16. The contents of these bags appeared to have reacted with the material of the bags. These releases could

have been avoided by knowing what types of chemicals are incompatible with the bags.

A 55-gallon metal drum had 8 visible pinhole leaks. See Photos 12, 13 and 14. The ETICAM label read "Iron Zinc Hydroxide, F006, Accumulation start date: 10-3-94." These releases should have been detected and corrected by overpacking the drum or transferring the contents into a drum in good condition.

In the southeast corner of the Pad the inspectors noticed plastic drums with liquid spills on the tops and along the sides. See Photos 17, 18, & 19. Mr. Enochs offered the explanation that as the on-site generated waste settled and cooled in the drums, it backed up through the opening. The ETICAM drum labels identified the waste as "organic salt" and the readable waste codes were D007, D008, F006, F007, F008 and F009. This is the on-site generated hazardous waste regulated under the Permit, Part II, Q. The accumulation start date on the label was 8-5-94. There were three potential violations in this situation: (1) Failure to manage waste to prevent releases; (2) Failure to remove the waste within 90 days; and (3) Failure to manage the drums in compliance with Subpart I of 40 CFR Part 264, and in accordance with 40 CFR Section 262.34.

Within the same aisle as the drums described above, the inspectors found one drum with no batch number and no hazardous waste label. All previous markings had been obliterated. See Photos 20 & 21. Later in the day, Mr. Enochs reported that the contents of the drum matched the adjacent drums and a label was put on the drum.

The Tank System

The receiving and storage tanks within the building are constructed from durable polypropylene. Containment and sump flooring and walls are coated with an epoxy sealant. Concrete joints are caulked with a chemical resistant sealant. No cracks or other defects were noticed on the surface of the tanks or in the containment areas. Extensive testing of the level indicators and alarms was conducted with satisfactory results by NVDEP in 1994.

The Crystallizer/Evaporator Unit

This unit receives the treated effluent from the metals recovery system and is regulated under Interim Status. Dewatering begins in the filter press and then the residue goes through driers. The residue salt is F006, a hazardous waste, which ETICAM puts into the roll-off bins and ships off-site within 90 days. See Photos 23 & 24.

Air Emissions

The dust generated at the receiving hoppers and driers goes through a baghouse dust collection system.

An air scrubber system controls potential emissions from the handling of sulfide and cyanide sludges.

Air samples were taken by an independent engineer on behalf of the Bureau of Air Quality in November, 1994. The results have not been received.

Operational & Maintenance Debris
The paints and coatings material are used up and the spent solvents (acetone) from the laboratory and paint thinners are sent to the treatment process. Mr. Enochs said there were no other hazardous wastes generated from on-site maintenance operations.

RECORD REVIEWS

PART A:

(See Attach. I.) The inspectors were provided a copy of the last revision of the Part A, dated 12/30/94.

CLOSURE PLAN:

A copy of the Closure Plan was available for the inspectors review. It was last revised and submitted to NVDEP for approval on December 30, 1994.

CONTINGENCY PLAN:

(See Spill Reports, Attach. J.)

A copy of the Continency Plan was available for the inspectors review. It was last implemented in on 2/22/95.

The last earthquake occurred September 14, 1994. It was centered 60 miles away in the South Lake Tahoe area and measured 6.3. There was no damage at the facility.

WASTE ANALYSIS PLAN:

The Plan was available for inspection. It is currently under review as part of the permit renewal process.

FINANCIAL ASSURANCE DOCUMENTATION:

(See Attach. K.)

ETICAM provided evidence that a trust fund is currently in place at the First Interstate Bank of Nevada, in Reno, to meet the estimated costs of closure.

Evidence of current liability insurance coverage was also reviewed.

INSPECTION LOGS:

The logs were available for the inspectors review.

The inspection log for the Storage Pad dated 2/28/95 (the day before this site inspection) did not identify and correct the drum leaks, ruptured bags, spills on top of drums and the drum with the missing label. See Attach. L.

PERSONNEL TRAINING RECORDS:

The records were available. The inspectors reviewed the Confined Space and Annual Refresher training records for the workers observed in the Truck Receiving Bay: James M. Stroud, Carl Wayne Crader and John A. Reeder.

MANIFESTS:

The manifests were made available. The manifests for incoming wastes from generators and the manifests prepared by ETICAM as an on-site generator were spot-checked. No violations were discovered.

OUT-BRIEFING:

Mr. Enochs agreed to correct the instances of non-compliance and to photograph or document the results and send a report to U.S. EPA, Reg. 9. This response is included with this report, in a separate file, as Attach. M.

RCRA CEI, 3/1/95 21-EMI, NV

POTENTIAL VIOLATIONS

Authority: Permit NEVHW001, a Hazardous Waste Storage and Treatment Permit issued to ETICAM, (original effective date 12/24/86), by the Nevada Division of Environmental

Protection under authority of Nevada Revised Statutes 459.520 and Nevada Administrative

Code 444.8500 through 444.9335.

Permit NEVHW001, Part II, A., Design and Operation of Facility The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

The inspectors saw processing equipment called "the cage" which was covered with sludge and left on the driveway in front of the maintenance supplies storage shed. The sludge could have been rinsed off and onto to the adjacent ground by intermittent showers or dried by the sun and released as particles into the air. At the request of the inspectors, the Permittee representative identified the sludge as hydroxide an on-site generated RCRA-regulated hazardous waste.

The facility failed to retain process equipment covered with sludge within the operational area which has secondary containment and routine clean-up procedures to contain and manage on-site generated hazardous wastes.

Permit NEVHW001, Part II, C., General Inspection Requirements

The Permittee shall follow the inspection plan set out in the inspection schedule, Attachment 2. The Permittee shall remedy any deterioration or malfunction discovered by an inspection as required by NAC 444.8885 and 40 CFR §264.15(c). Records of inspections shall be kept as required by NAC 444.8885 and 40 CFR §264.15(d).

The inspectors discovered containers on the storage pad and a roll-off bin in the south driveway that were not in compliance with RCRA container regulations. The Permittee's inspectors did not record finding these problems on the inspection log dated the day prior to this investigation. What was not detected were leaking supersacks, a leaking 55-gallon drum, drums with dried spills on the tops and sides, and a drum without any label or marking.

The Permittee failed to adequately inspect, detect, report and remedy container problems.

RCRA CEI, 3/1/95, 21-EMI Continued: Potential Violations

<u>Permit NEVHW001, Part II, Q., Storage of Facility-Generated</u> Sludges

The Permittee shall not store facility-generated sludges, i.e., those sludges generated from treatment of wastes at the facility, for longer than ninety (90) days or in any manner other than in containers or tanks pursuant to Subparts I and J or 40 CFR 264, and in accordance with 40 CFR Section 262.34.

On March 1, 1995, inspectors found one drum in the southeast corner of the storage pad that had an accumulation start date of 8-5-94. The readable waste codes were D007, D008, F006, F007, F008, and F009. The waste was organic salt residue generated onsite.

The Permittee failed to remove within 90 days the on-site generated sludges resulting from the treatment of wastes at the Facility.

Permit NEVHW001, Part III, B., Condition of Containers

If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this permit.

The inspectors found a roll-off bin leaking onto the driveway located outside of the evaporator/crystalizer unit. The label on the bin read "salt residue, F006, F009, F011, F012, D004, D005, D006, D007, D008, D009, D010, D011. There is no secondary containment for the driveway. Several areas of the driveways were worn or had minor cracks.

The inspectors found supersacks in rows 22 and 23 of the Storage Pad that had ruptured and spilled. The powdery contents could have been dispersed into the air by the wind.

The inspectors found a 55-gallon metal drum in the Storage Pad with 8 visible pinhole leaks. The leaks had run down the sides of the drums onto the surface of the Storage Pad. The label on the drum read "Iron zinc hydroxide, F006, accumulation start date 10-3-94."

The inspectors found four yellow plastic drums in the southeast corner of the Storage Pad with dried spills on the tops of the drum and on the sides. One of the labels read "organic salt residue, D007, D008, F006, F007, F008, and F009." The accumulation start date was 8-5-94.

The Permittee failed to prevent leaking containers or to transfer the contents of containers in poor or leaking condition to containers in good condition.

RCRA CEI, 3/1/95, 21-EMI Continued, Potential Violations

Permit NEVHW001, Part III, E., Management of Containers

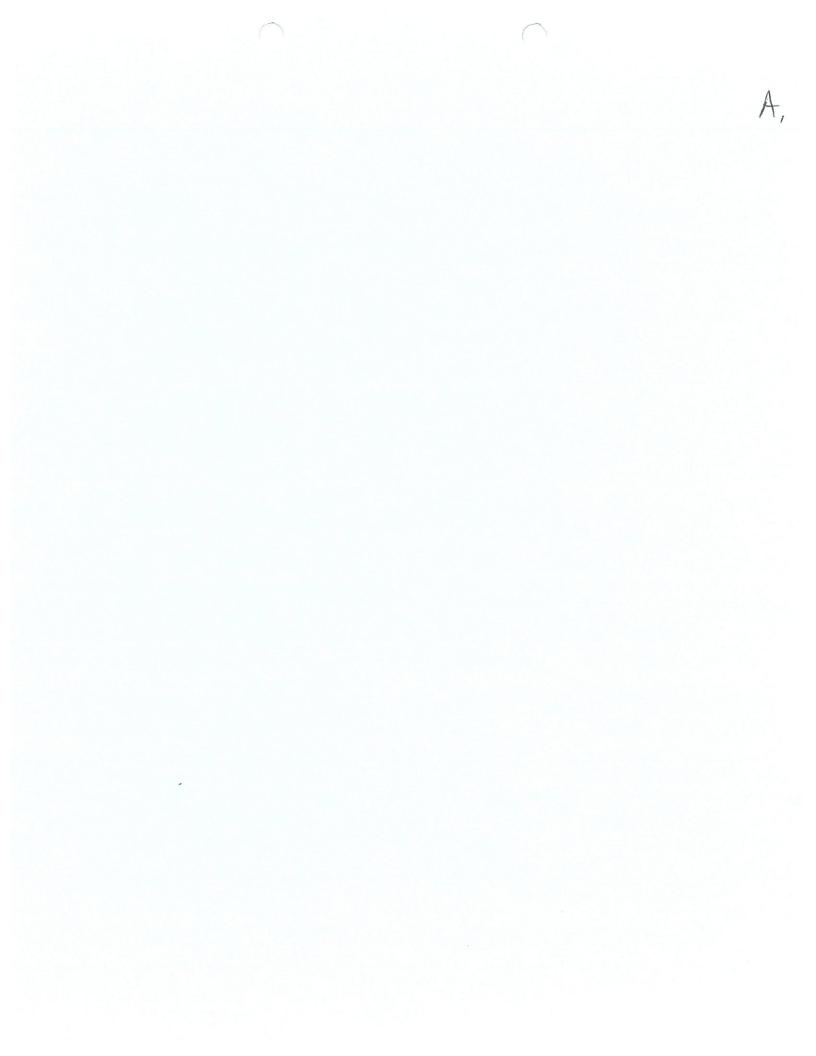
The Permittee shall manage containers as required by NAC 444.9085 and 40 CFR §264.173.

The inspectors found four yellow plastic drums in the southeast corner of the Storage Pad with dried spills on the tops of the drum and on the sides. One of the labels read "organic salt residue, D007, D008, F006, F007, F008 and F009." The accumulation start date was 8-5-94. Permittee representative explained that the on-site generated waste was poured into the drums while still hot and it sputters back up through the bungs as it cools.

Permittee has not managed a waste in containers to prevent ruptures or leaks.

ATTACHMENTS

- A. Revised Waste Acceptance Criteria transmitted 12/30/94 to NVDEP.
- B. Correspondence between ETICAM and NVDEP regarding on-site storage.
- C. The potential violations of March 18, 1994.
- D. Map of Fernley, Nevada, and a diagram of the ETICAM facility.
- E. Photographs taken during the inspection on March 1, 1995.
- F. ETICAM's description of its services which is included in each packet of information sent to prospective clients.
- G. Smelter customer (Chetmeco) correspondence.
- H. Hazardous waste manifest from ETICAM to smelter in Arizona.
- I. Revised Part A signed 12/30/94.
- J. Spill reports submitted to NVDEP.
- K. Financial Assurance documents.
- L. ETICAM's Inspection log for the Product Storage Pad dated 2/28/95.
- M. ETICAM's response to discussion of potential violations during out-briefing on March 1, 1995.



Treatment Pracedures

The solutions are segregated depending upon their metal composition, concentration, pH and cyanide content. After analysis, the solutions are transferred by gravity to the storage tanks (S-1 through S-28) or directly to the treatment tanks (T-1 through T-7).

Liquid wastes are neutralized and then treated by metal precipitation to form insoluble sulfides and hydroxides in one of the seven treatment tanks. Vapors produced during treatment are vented to a wet scrubber. The treated wastewater and precipitate are transferred to one of four sludge tanks (C-1 through C-4) prior to filtration. The sludge is pumped to a filter press for dewatering. Each filter press has a capacity of approximately 10 cubic feet. Sludge cake is collected in containers and transferred to the dryers. The dried cake is collected in drums or bags (supersacks), analyzed, and according to Mickey Lawler, shipped offsite to a smelter as a product. However, during this inspection, the inspector noted that the facility has labeled the filter cake as hazardous waste for all material that had been accumulating in the Product Storage Area from the period January 1, 1992 to January 1, 1993. (see Photo No. 17) U.S. EPA considers listed hazardous waste sludges destined for reclamation to be solid and hazardous waste until after metals recovery is completed, for example, by a smelter. Wastewater treatment sludges from treating electroplating wastes would therefore be regulated as hazardous waste (F006) during intermediate reclamation processes.

Filtrate from the filter press is pumped into neutralization tanks (S-29.1 / S-29.2) and/or into the final effluent tanks (E-1 through E-6). Liquid in effluent tanks is evaporated in the evaporator/crystallizer system. The existing system is capable of evaporating 16,000 gallons per day, and consists of a falling film evaporator followed by a spray crystallizer. The residual salt crystals are currently collected in roll-off containers as a hazardous waste while the concentrate is returned to the crystallizer. Condensate is used as plant make-up water or discharged to the sewer.

Sludge metallic wastes are received in the Truck Receiving Bay in drums, boxes and bags. They are stored until ETICAM accumulates a sufficient quantity for treatment, or until a smelter or metal reclamation facility is located. As with liquid wastes, all sludge wastes are analyzed and compared to known generator waste profiles prior to acceptance of the waste by ETICAM. Shipments of bulk sludges are received at the Bulk Sludge Receiving Unit adjacent to the Drying Room. The bulk sludge is moved by a conveyer to the dryer. Some of the sludge that ETICAM receives needs no additional treatment for reclamation, is classified as a product upon receipt by ETICAM, and is shipped to smelters or metal reclamation facilities as it is received.

ETICAM blends differing metal types prior to shipment to smelters. ETICAM refers to these metal types as pools. Metal-bearing material moves between different pools. For example, chromium material is blended with a copper pool because a copper smelter may find that to be acceptable. ETICAM is required by NDEP to maintain blending agreement records.

Truck Receiving Bay

The Truck Receiving Bay is located on the west side of the facility. Incoming wastes are offloaded in the bay. Bulk liquid wastes are pumped directly to storage or treatment tanks. Containerized solids/sludges are offloaded and placed in the appropriate designated area. The bay is not permitted to store containerized liquid except under emergency situations or while awaiting analysis. The bay is separated by berms into three sections, one for acid and bases, one for solid wastes. The floor is sloped to a drain which is connected to a 6,000-gallon underground storage tank, designed to contain wash water or accidental spills.

ETICAM is authorized to store up to 80 cubic yards of D002, D003, D006, D007, D008, D011, and F006 sludges. At the time of the inspection, the truck bay inventory log showed ETICAM to be in compliance on this issue.

ETICAM has no time limit to process these incoming sludges, but they must be inspected daily and meet the container storage requirements. Photo Nos. 1 and 2 show supersacks of zinc sludge waste (F006) stored in the Truck Receiving Bay. This hazardous waste was repackaged from an incoming roll-off bin (see Photo Nos. 3 and 4) and ETICAM laboratory analysis indicated nonhomogeneous levels of cyanide. ETICAM has not, as of the March 18, 1994 inspection, determined whether to treat the waste or to profile off the waste. Photo Nos. 5 and 6 document a release of liquid zinc sludge waste from a supersack to the floor of the Truck Receiving Bay. The waste contains a significant concentration of cyanide. The analytical lab analysis (Attachment 6) indicates the waste to be 100 percent solid with 45.2 percent moisture. An adjacent supersack of the same waste (Photo Nos. 7 and 8) had also leaked. The adjacent leaking supersack had been placed in an overpack container (tote) prior to the inspection. Based on these findings, ETICAM was aware that the zinc sludge waste was incompatible with the designated supersack container.

The waste documented in Photo No. 6 is properly identified on the hazardous waste label as a hazardous waste; however, the label does not list cyanide under the hazardous description. ETICAM transposed hazardous waste information from an incoming generator's hazardous waste label (Photo No. 4). ETICAM's analytical analysis of the zinc sludge, performed on December 8, 1993 and January 8, 1994 indicates significant concentrations of cyanide. ETICAM has not identified cyanide on the hazardous waste labels on the material that ETICAM has repackaged. Consequently, not all hazardous waste components are listed on the label. ETICAM has determined that nonhomogeneous concentrations of cyanide are also present in the waste but ETICAM has not updated the language on the hazardous waste label. However, the waste is labeled HAZARDOUS. This does not appear to be a violation.

<u>Hazardous Waste Storage Tanks</u>, <u>Detoxification Room</u>, <u>Dewatering Room</u> (formerly referred to as Metal Recovery Tanks) and the <u>Drying Room</u>

The hazardous waste storage tanks, S-1 through S-29, are separated by concrete walls for different waste types. Each tank bay can contain at least 100 percent of the capacity of the largest tank, and is equipped with an alarm system. There are also high level indicator alarms on the tanks. The last test of the high level indicator alarms was completed on July 23, 1993. Mickey Lawler stated that testing of the high level indicator alarms began on March 15, 1994 and was in progress at the time of the current inspection. No documentation was available to substantiate the status of the current round of tests.

Storage tank S-26 is shown in Photo No. 9. Sulfuric acid waste stored in this tank at the time of the September 9, 1993 CEI has been removed. The tank is empty other than a heel of solids which has precipitated out of solution and which remains in the bottom of the tank.

The treatment tanks are located in the Detoxification Room. Tanks T-1, T-2 and T-3 are typically used for acid and alkaline waste treatment. Solutions containing hexavalent chromium are pretreated separately from other acid/alkali or metal-bearing waste. The hexavalent chromium is treated in Tanks T-1 and T-2 until a pH of 2.5 is achieved. Tanks T-4, T-6, and T-7 are typically used for cyanide waste treatment. Treatment tanks T-6 and T-7 are shown in Photo No. 10. A bleaching step using sodium hypochlorite to destroy cyanide was occurring at the time of the inspection. The cyanide waste had previously been stored in Tank S-2.

Tank level indicators were installed on Tanks T-5 and T-2 (Detox NaOH) in 1993, as required by the Resolution Schedule. Testing of the tank level indicators was reportedly in progress at the time of the current inspection.



January 26, 1994

Ms Nancy Alvarez
Division of Environmental Protection
Bureau of Waste Management
Capital Complex
333 W. Nye Lane
Carson City, Nevada 89710

Dear Ms Alvarez:

The following is an updated response to the report that was submitted on January 14, 1994 regarding ETICAM's product inventory. Please note the changes for the 1/1/94 Chromium value and all the values for the 1/1/93 inventory. The following nomenclature will be used for this report:

Cr: Chromium Product Cu: Copper Product

Ni/Co: Nickel-Cobalt Product

Zn: Zinc Product

Item 1: Amount of material on site 1/1/93.

Cr 255,560 lbs

Cu 335,861 lbs

Ni/Co 228,870 lbs

Zn 388,519 lbs

Item 2: Amount of material removed during 1993 that was recycled.

			•
Cr	328,082 lbs 1	163,044 lbs 2	165,038 lbs 3
Cu	1,028,705 lbs 1	331,656 lbs z	697,049 lbs 3
Ni/Co	604,908 Ibs 1	222,547 lbs 2	382,361 lbs 3
Zn	867,150 lbs 1	356,466 lbs 2	510,684 lbs 3

This value is the total amount of the material that was recycled in

This value is the portion of the total amount that was from the total amount that was from the This value is the portion of the total amount that was from the

This value is the portion of the total amount that was from the 1993 production.

Ms Nancy Alvarez Division of Environmental Protection January 26, 1994 Page 2

Item 3: Amount of material produced in 1993.

Cr 771,123 lbs

Cu 929,534 lbs

Ni/Co 883,983 lbs

Zn 513,124 lbs

Item 4: Amount of material on site on 1/1/94.

Cr 620,516 lbs

Cu 272,934 lbs

Ni/Co 557,472 lbs

Zn 55,225 lbs

If you have any questions, please contact myself.

Sincerely,

Mickey Lawler Compliance Manager

cc: file Jeff Denison

P. 020

PETER C. MORROS Director

STATE OF NEVADA BOB MILLER Covernor



L. H. DODGION

Administrator

94 NUG 31 PH 2: 14

FAX (702) 486-7014

413) 1994

(702) 486-7010

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

(Las Vegas Office) 1515 E. Tropicana, Suite 395 Las Vegas, Nevada 89119

WARNING LETTER

August 29, 1994

Mr. Ben Simmons Eticam/21st Century EMI 2095 Newlands Drive East Fernley, Nevada 89408

CERTIFIED MAIL RETURN RECEIPT REQUESTED P 998 541 203

Dear Mr. Simmons:

On June 13, 1994 Nevada Division of Environmental Protection (NDEP) staff conducted a State Quarterly Inspection (SQI) at Eticam/21st Century EMI (Eticam) to determine compliance with Federal and State hazardous waste management regulations.

Based on information gathered at the time of the June 13, 1994 CEI, NDEP has determined that Eticam is allegedly in violation of the following provisions of the Nevada Administrative Code:

NAC 444.8632 COMPLIANCE WITH FEDERAL REGULATIONS ADOPTED BY REFERENCE:

Failure to comply with all applicable requirements of Title 40 of the Code of Federal Regulations (CFR) Part 2, Subpart A, Part 124, Subparts A and B, and Parts 260 to 270, inclusive, as those parts existed on July 1, 1992, and as modified by NAC 444.86325, NAC 444.8633 and NAC 444.8634, including:

Eticam/21st Century EMI Warning Letter August 29, 1994 Page 2

1. \$261.2(c)(4) DEFINITION OF SOLID WASTE; ACCUMULATED SPECULATIVELY:

Materials are solid wastes if they are recycled - or accumulated, stored, or treated (but not recycled) before recycling - as specified in paragraphs (c)(1) through (c)(4) of 40 CFR §261.2. Paragraph (c)(4) states that materials noted with a "*" in column 4 of Table 1 of §261.2 are solid wastes when accumulated speculatively. These wastes include the materials that were being accumulated speculatively at Eticam. By December 31, 1993 Eticam failed to send off site for recycling at least 75% of the chromium material that was on site as of January 1, 1993. On January 1, 1993 Eticam had stored as product 255,560 pounds of chromium. Of that total, Eticam has reportedly sent off site to a recycling facility 165,038 pounds or 64.6% (see Attachment III of the inspection report). These materials are now considered to be solid waste and therefore hazardous waste.

2. §261.2(f) DEFINITION OF SOLID WASTE; DOCUMENTATION OF CLAIMS THAT MATERIALS ARE NOT SOLID WASTES OR ARE CONDITIONALLY EXEMPT FROM REGULATION;

Failure by Eticam to maintain documentation which demonstrates that there is a known market or disposition for material produced by Eticam, and that Eticam meets the terms of the exclusion or exemption from the definition of solid waste. Eticam has failed to provide appropriate documentation to demonstrate that the material is not a waste, or is exempt from regulation (see Attachments I and II of the inspection report).

Eticam is hereby directed to complete the following tasks:

1. Eticam did not remove at least 75% of the chromium sludge for calendar years 1992 and 1991. The chromium sludge does not meet the criteria of the letters cited in Attachments I, II and III since it has been accumulated speculatively for at least the last three years; therefore, this sludge is a hazardous waste. Eticam submitted a variance to NDEP on March 4, 1994 pursuant to 40 CFR §260.31(a). Until such time that an administrative decision is made on the variance request, Eticam is required to handle all of the chromium sludge as a hazardous waste. Before a decision can be made, Eticam must provide NDEP with all information required under 40 CFR §260.30(c) and 260.31(c).

Eticam/21st Century EMI Warning Letter August 29, 1994 Page 3

2. Provide NDEP with a summary of <u>all</u> material sent out since January 1, 1993 to the present, in the format specified in the State Quarterly Inspection Report.

All of the information requested in this letter must be submitted to Paul J. Adras of NDEP no later than September 14, 1994.

Please be advised that future violations of the hazardous waste regulations may possibly result the issuance of administrative citations or in the assessment of civil penalties. This penalty is in addition to any other penalty provided by NRS 459.400 to 459.600, inclusive.

Questions regarding this Warning Letter may be directed to the undersigned at (702) 486-7010.

Sincerely,

Paul J. Adras

Environmental Management Specialist Compliance and Enforcement Branch Waste Management Bureau

By Certified Mail # P 998 541 203 PJA/pja/aw

cc: Nancy Alvarez, NDEP/Carson City, BoWM



January 14, 1994

Ms Nancy Alvarez
Division of Environmental Protection
Bureau of Waste Management
Capital Complex
333 W. Nye Lane
Carson City, Nevada 89710

RECEIVED

JAN 14 1994

ENVIRONMENTAL PROTECTION

Dear Ms Alvarez:

The following is the response to your letter dated November 30, 1993 regarding the product inventory. Originally this report was due on January 7, 1994 but per our phone conversation on January 6, 1994 this due date was changed to January 14, 1994. The following nomenclature will be used for this report:

Cr: Chromium Product Cu: Copper Product

Ni/Co: Nickel-Cobalt Product

Zn: Zinc Product

Item 1: Amount of material on site 1/1/93.

Cr 372,500 lbs

Cu 412,150 lbs

Ni/Co 278,843 lbs

Zn 412,725 lbs

Item 2: Amount of material removed during 1993 that was recycled.

Cr	328,082	lbs 1	163,044 lbs 2	165,038	lbs	3
Cu	1,028,705	lbs 1	331,656 lbs 2	697,049	lbs	3
Ni/Co	604,908	lbs 1	222,547 lbs 2	382,361		
Zn	867,150	lbs i	· 356,466 1bs 2	510,684	lbs	3

This value is the total amount of the material that was recycled in

This value is the portion of the total amount that was from the 1992 inventory.

This value is the portion of the total amount that was from the 1993 production.

Ms Nancy Alvarez Division of Environmental Protection January 14, 1994 Page 2

Item 3: Amount of material produced in 1993.

Cr 771,123 lbs

Cu 929,534 1bs

Ni/Co 883,983 lbs

Zn 513,124 lbs

Item 4: Amount of material on site on 1/1/94.

Cr 742,237 lbs

Cu 272,934 1bs

Ni/Co 557,472 lbs

Zn 55,225 lbs

If you have any questions, please contact myself.

Sincerely,

Mickey Lawler Gauler

Compliance Manager

cc: file

Jeff Denison

Mining Regulation and Asclamation

L. H. DODGION
Administrator

Administration

Water Quality Planning

Water Pollution Control

Air Quality

Fax

::

(702) 687-4670 687-5065

> 687-4675 687-6883

687-5870

667-5856

STATE OF NEVADA BOB MILLER Governor file

PETER G. MORROS

Wasto Management Chemical Hazards Management Federal Facilities Fax 687-5872 687-5972 687-5672 685-0468

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

Capitol Complex 333 W. Nye Lane Carson City, Nevada 89710

April 21, 1993

Byron Bradd, P.E. Eticam 2095 Newlands Drive Fast Fernley, Nevada 89408

RE: First Quarter 1993 Progress Report

Dear Mr. Bradd:

The Nevada Division of Environmental Protection has completed a review of your first quarter progress report dated April 15, 1993 for the Resolution Schedule signed July 20, 1992. The following are comments that need to be addressed as discussed on April 16, 1993. Please make the appropriate changes and submit a new report by April 30, 1992.

A. Tank Bracing, Item C.4.

Provide the tank numbers of the tanks that have been braced. Use the chart provided with the previous quarterly report titled "Listing of Tanks Braced." Also, provide a list of tanks that need their liquid levels reduced by 2 to 2:5 feet from the top of the tank. Give a completion date for lowering the tank levels.

B. Salt Removal Schedule, Item F.4.

Complete and submit the "Salt Storage Inventory" table that was submitted with the last quarterly report. Give a date for disposing of the four drums of old salt.

C. Product Shipments, Item G.9.1

September 1, 1991 Product Inventory

Complete and submit the "Product Inventory Summary" table that was submitted with the last quarterly report. Use the date of March 31, 1993 for columns D and F for all pre

Byron Bradd, P.E. Eticam April 21, 1993 Page 2

September 1, 1991 product.

January 1, 1992 Product Inventory

Use a separate table to show the amount of 1/1/92 inventory on site as of March 31, 1993 for the Falconbridge and Inmetco product categories. This product became a hazardous waste on January 1, 1993 and needed to be shipped off site by March 31, 1993. As noted in your quarterly report, the chromium inventory was given an extension until July 31, 1993 to be removed.

D. January 1, 1993 Inventory

Provide an inventory of product on site as of January 1, 1993. This should include the remaining Cypress and Horsehead Resource product category accumulated from 9/2/91 to 12/31/91 that was on site as of 1/1/93. The inventory should not include any product that is now a hazardous waste. Hazardous waste product includes the pre 9/1/91 inventory of copper and chromium, the 1/1/92 Falconbridge product inventory and the 1/1/92 Inmetco product inventory.

If you have any questions, please call me at $687-5872 \times 3005$.

Sincerely,

Miney (ANTE US)

Environmental Engineer

RCRA Facility Branch

Bureau of Waste Management

NA:gf

cc: Jeff Denison, NDEP

Memorandum RE: Eticam January 28, 1993 Page 3

Oct 12, 1992

Eticam requests an extension to the product removal dates. Specifically, a 30 day extension is requested for copper because the smelter suffered operational problems for 3 weeks. NDEP informs Eticam that copper stored on site after November 1, 1992 must be labelled as a hazardous waste and be moved to the salt storage pad by December 1, 1992. NDEP informs Eticam that all copper accumulated as of 9/1/91 must be removed from the facility by 2/1/93, or it will be subject to penalties. According to the permit, Eticam is subject to 90 day rule for site generated sludge that is a hazardous waste.

In addition, Eticam requests a 90 day extension for nickel because shipments were curtailed for 2 months to the smelter in Canada due to labor union problems and Eticam is required to get an export notification from EPA and the Canadian government to ship to the smelter. The Canadian Government now calls this material a hazardous waste. NDEP informs Eticam that all nickel must be labelled as a hazardous waste, but the material could remain in the parking area. NDEP informs Eticam that all nickel on site as of 9/1/91 must be removed by 2/1/93, or it will be subject to penalties.

November 1, 1992 Eticam is to remove all product categories. Material on site after 11/1/92, is a hazardous waste. Eticam has 90 days to remove it.

November 4, 1992 NDEP performs Quarterly Inspection, notes all pre 9/1/91 material is labelled as a hazardous waste and is stored in appropriate location.

January 21, 1993 Eticam requests extension to removal dates for all product categories.

As you can see, Eticam has been given several extensions to remove the material as a product, and then been given 90 days to remove the material as a hazardous waste.

Current Issue

Eticam is requesting an extension for removal of product material segregated into 5 types: zinc, nickel, iron, chrome, and copper. The extension request and reasons are outlined below:

L. H. DODGION

Administrator

STATE OF NEVADA BOB MILLER Governor Tile

PETER G. MORROS

687-5672

687-5972

687-5872

885-0868

Administration (702) 687-4670
Air Quality 587-5655
Hinling Regulation and Reclamation \$87-4875
Water Quality Planning 587-5863
Water Pollution Control 687-5856
687-5856



Waste Management Chemical Hazards Management Federal Facilities Fex

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

Capitol Complex

333 W. Nye Lane

Carson City, Nevada 89710 October 29, 1992

Phillip Harrison Eticam 2095 Newlands Drive East Fernley, Nevada 89408

RE: Eticam letter dated October 12, 1992

Metal Product Shipment Schedule

Dear Mr. Harrison:

The Division has reviewed your request received October 26, 1992, for an extension to the product removal dates listed in item 9.1 of the Resolution Schedule signed July 20, 1992. The removal dates were set for product material on-site as of September 1, 1991. Eticam agreed to remove this material by November 1, 1992. This agreement was reached after Eticam failed to meet the speculative accumulation requirements outlined in 261.1(c)(7) for calendar year 1991.

Your request is denied. The Division has made a tentative decision to allow the following changes to the Resolution Schedule:

- 1. Copper product on-site as of September 1, 1991, must be labelled as hazardous waste with an accumulation start date of November 2, 1992. However, Eticam may leave it at its current location. Before December 1, 1992, any remaining material must be moved to the old salt storage pad. Before February 1, 1993, all copper hazardous waste must be removed from the facility or it will be subject to penalties. Eticam should comply with the generator requirements for the copper hazardous waste.
- 2. Nickel product on-site as of September 1, 1991, must be labelled as hazardous waste with an accumulation start date of November 2, 1992. However, Eticam may leave it at its current location. Before February 1, 1993, all nickel product must be removed from the facility or it will be subject to penalties.

Phillip Harrison Eticam Page 2 10/29/92

Eticam should comply with the generator requirements for the nickel hazardous waste.

- 3. All product material turned hazardous waste, stored on or off the pad, must be removed from the site before February 1, 1993. It is doubtful that any extension requests will be given for this due date.
- 4. Eticam may not reclassify the material just so that it does not have to be moved to the old salt storage pad. Only material being shipped to Cypress Miami and Falconbridge may be stored off the pad as hazardous waste.

The Division will evaluate the information to be submitted November 2, 1992. After this review the Division reserves the right to make a final decision on your request that is different from this tentative decision. If you have any questions, please call Nancy Alvarez.

Sincerely

Jeff Denison Supervisor

RCRA Facility Branch Bureau of Waste Management

JD:gf





92 DCT 26 PM 3: 17

October 12, 1992

Ms. Nancy Alvarez Nevada Division of Environmental Protection 123 West Nye Lane Carson City, NV 89710

Dear Ms. Alvarez:

ETICAM requests an extension to product removal dates stated in item 9.1 of The Resolution Schedule concerning the Metal Product Shipment Schedule.

Copper

Cypress Miami suffered operational problems on two occasions causing complete curtailment of shipments from approximately September 8th to the 25th, (see attached letters). Only one load was allowed the week of September 28th and a limit of two loads per week thereafter. This means only 3 loads were shipped in the month of September while under normal conditions, 8 loads would have been shipped.

ETICAM requests a 30 day extension to the removal date for copper product from 11/1/92 to 12/1/92.

Nickel

ETICAM has recently been notified of a Canadian law that requires nickel product shipped to Falconbridge to be classified and manifested as a hazardous waste because of it being a hazardous substance. This will require that an export notification be submitted to U.S. EPA as well as a corresponding import notification submitted by Falconbridge to Canadian Environmental Authorities. There was also an extended 2 month contailment for shipments to Falconbridge this summer, (see attached letter). Process time for these notifications is estimated to be 90 days. Two shipments remain of the pre 9/1/91 nickel product inventory.

ETICAM requests a 90 day extension to the removal date for this nickel product from 11/1/92 to 2/1/93.

Product removal schedule dates will remain as stated in the resolution schedule for zinc, chrome and cadmium.

Sincerely,

Philip Harrison

Environmental/Safety Manager

cc: B. Bradd

PH/1b

Sent Certified Mail P149487441



the following amounts of product from the 9/1/91 have been shipped off-site:

copper	269	tons
zinc	9	tons
nickel	10	tons
cadmium	0	
chrome	0	

2. By January 1, 1993, Eticam shall remove at least 75 percent of the product material that was accumulated as of January 1, 1992. On April 28, 1992, Eticam submitted the amount of product material accumulated as of 1/1/92. The amount to be removed by metal type is as follows:

Metal	Weight of material on site (1/1/92)	75 Percent (Amount to be shipped off site)
copper	369 tons	277 tons
zinc	133 tons	99 tons
nickel	51 tons	38 tons
cadmium	9 tons	7 tons
chrome	135 tons	102 tons
total	697 tons	523 tons

The quarterly progress reports shall give the amount of material removed by metal type and weight.

Status: See 1. above.

Status: CEI 9/23/92

The data Eticam has submitted for the September 1, 1991 inventory of Metal Product is incomplete. Both zinc and cadmium were left out on the 9/1/91 inventory? On the 10/15/92 progress report Eticam agreed to submit an accurate 9/1/91 product inventory. At the time of the inspection it was pointed out to Eticam that separate data is suppose to be reported to NDEP (i.e. The 7/16/92 progress report was suppose to list the amount of 9/1/91 product inventory shipped offsite separate from the amount of recently generated product that was shipped offsite (see requirements on progress reports under 1 & above).

Note: A penalty may be assessed against Eticam if subsequent reports fail to report this data.

It is NDEP's position that when the metal product becomes a hazardous waste, due to Eticam's failure to remove the metal product offsite as described in the Resolution Schedule, the hazardous waste (product) will be subject to the 90-day storage limit.

Metal Products Shipment Report

PETER G. MORROS

STATE OF NEVADA BOB MILLER Governor

L. H. DODGION

Administrator

Administration (702) 687-4670 Air Guestry 687-8065* Windsg Regulation and Reclamation 687-4870 Waste Management 687-872



Wastewater Treetment Services
Water Permits and Compliance
Water Quality Planning
FAX

487-8870 , 667-4670 687-4870 885-0068

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

123 W. Nye Lane

Carson City, Nevada 89710

May 17, 1991

Byron B. Bradd, P.E. General Manager ETICAM 2095 Newlands Drive, East Fernley, Nevada 89408

RE: Metal Products Shipment Report

Dear Mr. Bradd:

I have reviewed your letter of May 13, 1991 which provided information on the amount of product which you have shipped and the amount presently stored on site. The overall format is acceptable. However, the following additional information will be required for the time period covered by your letter and for future reports.

Two letters from this office have described the information which you must maintain. Please refer to our correspondence dated June 23, 1988 and September 10, 1990. The first letter requires documentation of the quantity of sludge produced, its corresponding assay and the quantity of metals recovered by the smelter. Your letter did not provide the assay information or the quantity of metals recovered by the smelter. Please provide this summarized information in both your annual and post-shipment reports.

The September 10, 1990 letter required the following for each shipment of product:

- 1. Notice of the shipment and to what facility it was sent for further reclamation.
- 2. Documentation demonstrating that there is a known market or disposition for the material and that you meet the terms of an exclusion or exemption (see 40 CFR 261.2(f).
- 3. Documentation that the material is not a waste or is exempt from regulation (i.e. a letter from the receiving facility that the material is used as an ore or other product).

Mr. Byron Bradd May 17, 1991 Page 2

4. Show that you or the reclamation facility have the necessary equipment to do the reclamation (e.g. provide documentation that Cyprus Miami Mining has a smelter).

This letter also required you to keep records demonstrating that 75% of the material is transferred to a different site for recycling or recycled (see 40 CFR 26%. \$\frac{1}{2}(c)(8)\$) each calendar year. Note that this agency will require that the material actually be recycled in each year. Shipment to a broker or intermediary who does not actually perform the recycling will not be considered compliance with the requirements of 40 CFR 26%. \$\frac{1}{2}(c)(8)\$.

Your letter did not provide the documentation that the material was actually recycled. Please provide this (e.g. letters from the recycler certifying that certain quantities of material were received, the material was recycled, the amount of recovered metal and the amount paid to Eticam).

Lastly, the August 12, 1990 letter from G. Ahmad certified receipt of 14 containers with 996 drums. Your letter noted that 1.055 drums were shipped to Pakistan Chrome Mines limited in 1990. Please explain the discrepancy. In addition, this office will need certification from the facility which received the chromium material from Pakistan Chrome Mines that the material was recycled.

If you have any questions, please give me a call.

Sincerely,

Daniel P. Gross, P.E.

Supervisor, Facility Branch Waste Management Bureau

cc: Verne Rosse
Paula Bisson, EPA Region IX

Mining Regulation and Reclamation 687-4670 Weste Management (702) 667-5872

Administration (702) 687-4670

Air Quality 687-5065

.t fame

BDB MILLER. Governor

STATE OF NEVADA

Water Permits and Compliance 687-4670
Water Quality Planning 687-4670
Wasterwater Treatment Services 687-5870

Product

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION

123 W. Nye Lane Carson City, Nevada 89710

September 10, 1990

Byron Bradd, P.E. Plant Manager ETICAM, Inc. P.O. Box 1075 Fernley, NV 89408

Dear Mr. Bradd:

Based on our meeting of September 7, 1990, the Division is rescinding its August 22, 1990 letter and reinstituting its June 23, 1988 letter, regarding the Division's determination that sludge generated at the ETICAM, Fernley facility may be classified as a product material destined for reclamation.

In addition to the conditions of the June 23, 1988 letter, ETICAM shall provide to the Division within a reasonable time for each shipment of product the following information:

- 1. Notice of the shipment and to what facility it was sent for further reclamation.
- Documentation required by 40 CFR 261.2 (f):
 - a. Demonstrate that there is a known market or disposition for the material and that you meet the terms of the exclusion or exemption.
 - b. Provide appropriate documentation to demonstrate that the material is not a waste or is exempt from regulation. (A letter from the receiving facility that the material is used as an ore or other product.)
 - c. If appropriate, show that you have the necessary equipment to do the reclamation.

Another provision of the Federal regulations (40 CFR 261.1, (c), 8) requires that records be kept to show that 75% of the material be shipped off site, or recycled. These records must be

ť,

Byron Bradd ETICAM, Inc. September 10,1990 Page 2

submitted annually.

Finally, to the best of ETICAM's ability, you must determine at the time of shipment that the material is being transported to a facility that actually is capable of recovering the value to the material.

If you have any questions, please contact me.

Sincerely,

Verne Rosse, P.E.

Chief

Waste Management Bureau

cc:

Lew Dodgion Dave Wilma Dan Gross Alene Coulson

TEL: 70288, 55

P = 0.07

RICHARD H. BRYAN, Governor

STATE OF NEVADA

METAL SHIPMENT POLYBESTORD Product SHIPMENT 702/885-4670 Waste Management 885-4670 Waste Pollution 885-4670

Adm! Materion 702/885-4670 Air Quality 885-5065 Comptraction Grants 885-5870



DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL PROTECTION

201 South Fall Street Carson City, Nevada 89710

June 23, 1988

Richard T. Fox President ETICAM America, Inc. 25 Graystone Street Warwick, Rhode Island 02886

Dear Mr. Fox:

The Division of Environmental Protection has completed its review of the submittal provided by Ray Reott of Jenner and Block dated May 16, 1988 regarding the disposition of the sludge generated at the Fernley. Nevada facility.

Based upon this review and that of the submittal by ETICAM on January 20, 1988, it has been determined that the sludge may be classified as a product material destined for reclamation, rather than a material destined for disposal. As such, the sludge is not classified as a hazardous waste.

As a result of this determination, the Division requests that ETICAM maintain documentation of the quantity of sludge produced and its corresponding assay to verify that the material contains economically recoverable amounts of the various constituents in the sludge. In addition, it is requested that the documentation contain the quantity of metals recovered by the smelter from each shipment of sludge.

ETICAM Page 2 June 23, 1988

Should you have any questions concerning this matter, please contact me.

Sincerely,

Thomas J. Fronapfel, P.E.

Environmental Engineer Waste Management Section

TJF:3

cc: Lew Dodgion Verne Rosse Byron Bradd Ray Reott Doug Martin Kim Savage

Nahid Zoueshtiagh

C,

POTENTIAL VIOLATIONS

The following potential violations were discovered during the March 18, 1994 CEI:

NAC 444.8632:

Prohibitions on storage of restricted wastes.

40 CFR §268.50

ETICAM stored F006 hazardous waste, a land disposal restricted

waste, beyond one year on the Salt Storage Pad.

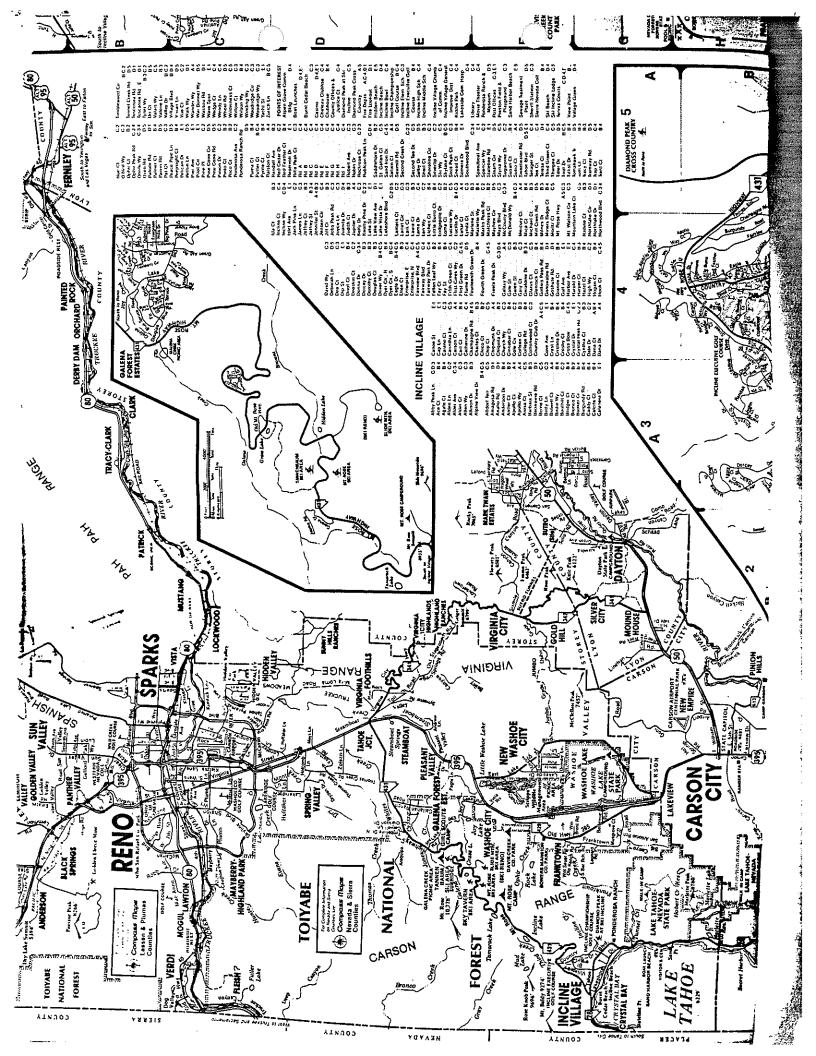
NAC 444.8632; 40 CFR §265.172 Compatibility of waste with container.

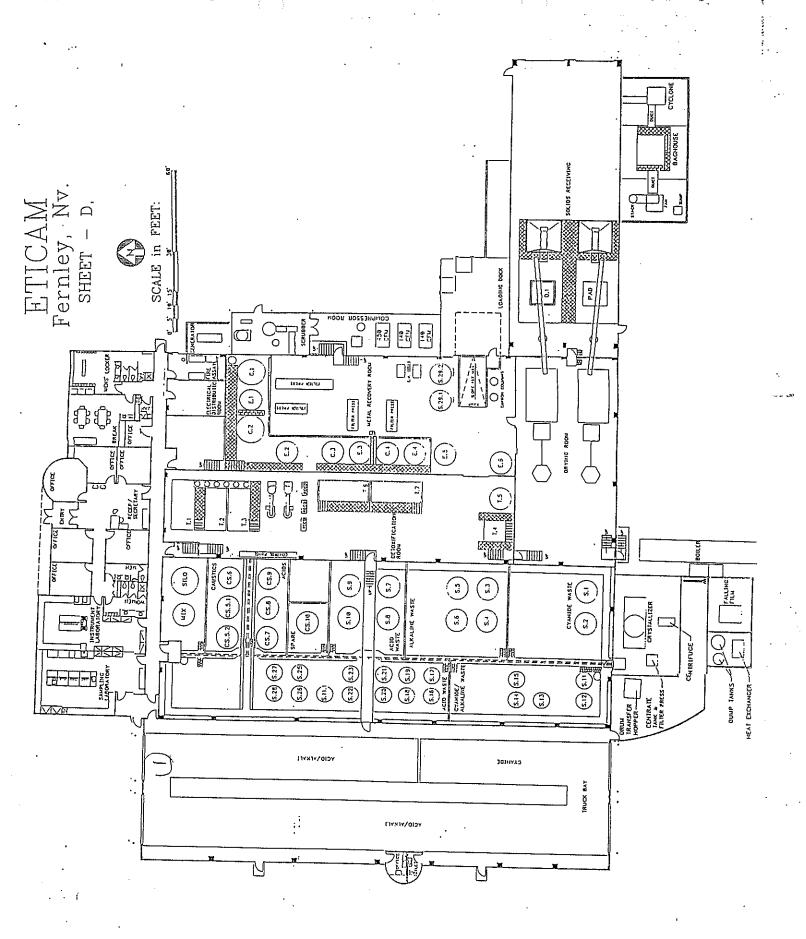
Photo No. 5 documents a release of liquid zinc sludge hazardous waste from a supersack to the floor of the Truck Receiving Bay. The waste contains a significant concentration of cyanide. No cracks were observed on the cement floor and the floor is sloped to a drain which is connected to a 6,000 gallon underground storage tank, designed to contain wash water or accidental spills.

The hazardous waste had been shipped to ETICAM from K&L Plating, Oakland, California in a roll-off bin. The roll-off bin and the hazardous waste label are shown in Photo Nos. 3 and 4. The waste was repackaged by ETICAM into supersacks. The analytical lab analysis (Attachment 6) indicates the waste to be 100 percent solid with 45.2 percent moisture. An adjacent supersack of the same waste had also leaked. The adjacent leaking supersack had been placed in an overpack container (tote) prior to the inspection.

Based on these findings, ETICAM was aware that the zinc sludge waste was incompatible with the designated supersack container.







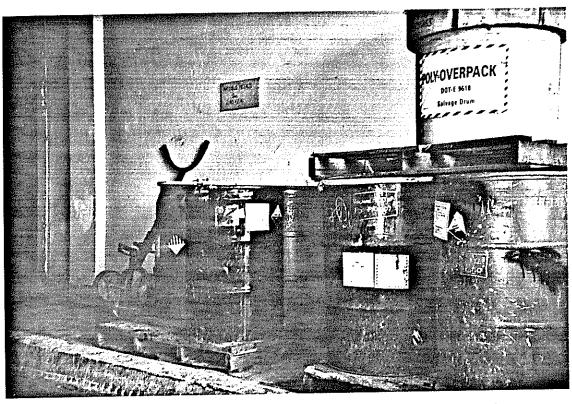


Photo 1: Indoor Truck Bay. Precious metals accumulation area. The labels on the containers indicated "corrosive" but Mr. Enochs advised each contained silver. Bay also had discrete areas for acids, alkalines and cyanides.

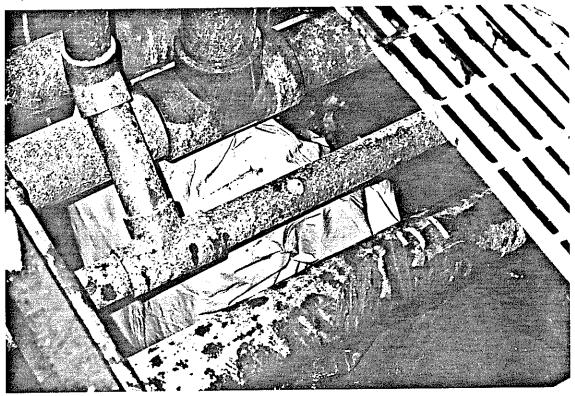


Photo 2: Indoor Truck Bay. Two workers in the confined space under the main drain unclogging the pipe of liquid hazard wastes with metals. A third man was above providing light and watching the workers. All of the necessary precautions were taken.

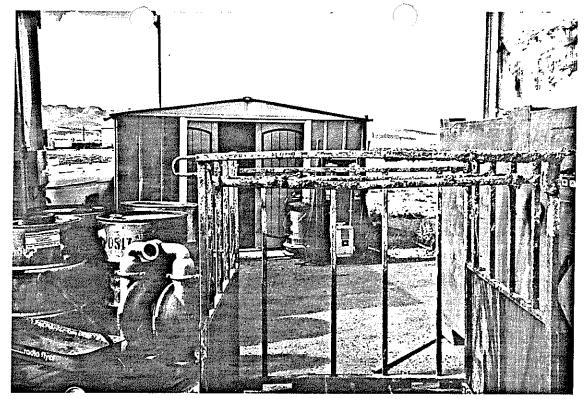


Photo 3: Equipment (cage) covered with hydroxide sludge generated on-site was found outside of the bermed operational areas. The location was south of the Truck Bay and in front of the Maintenance Storage shed.

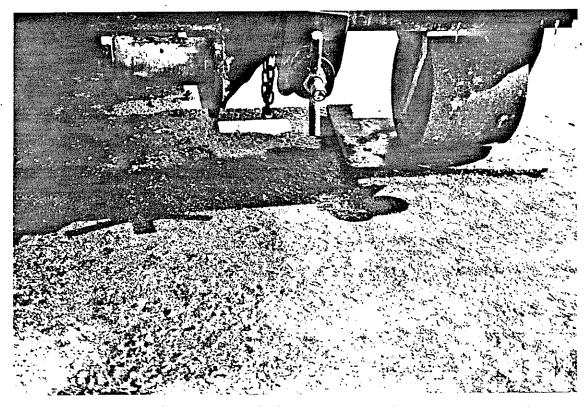


Photo 4: South side of facility. A leaking roll-off bin containing crystalline salt residues, or hazardous wastes. Bin located outside of the crystallizer.

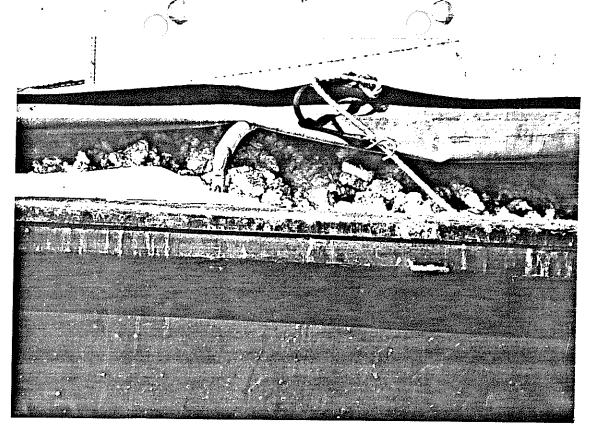


Photo 5: View of roll-off bin #4 with cover raised to show it was full.



Photo 6: View of hazardous waste label on roll-off bin #4. The accumulation start date indicated the roll-off bin began accumulating and was filled on the morning of this inspection.

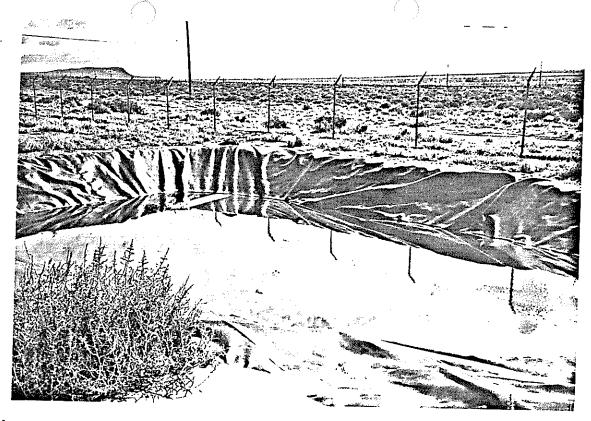


Photo 7: Run-off pond to handle the probability of a 100-year flood. The water was clear and the lining appeared to be in good condition.

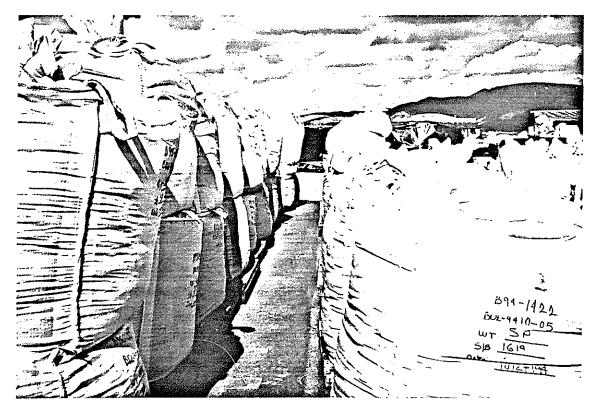


Photo 8: Product Storage Pad - Totes, bags and supersacks of treated wastes stored as product on a bermed concrete pad in the southeast corner of the plant.



Photo 9: Product Storage Area - Another view. 55-gallon plastic & metal drums, a labpack, and more bags.



Photo 10: Product Storage Pad - Leakage from containers was covered with absorbent.

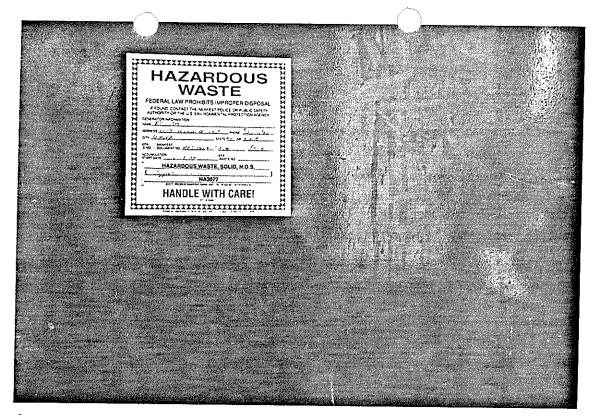


Photo 11: Product Storage Pad - Close-up of a drum label. The drum held copper sludge (F006) which began to accumulate at Eticam on October 12, 1994.

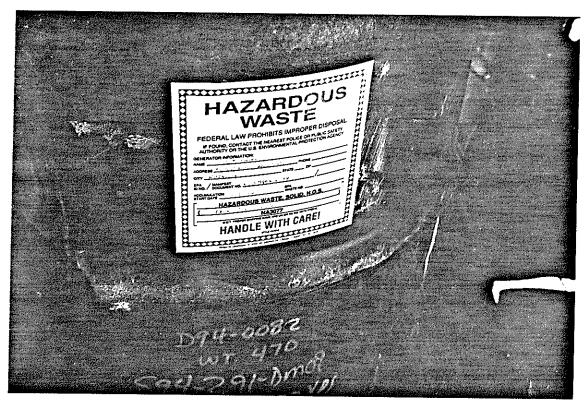


Photo 12: Product Storage Pad - Eticam's label on a leaking drum read "Iron Zinc Hydroxide, F006, Accumulation start date: 10-3 - 94".



Photo 13: Product Storage Pad - Leaks on front and right side of drum whose label is in photo 12 above.

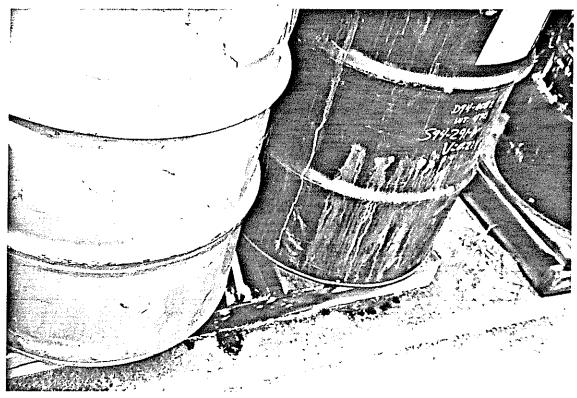


Photo 14: Product Storage Pad - Leaks on ground in front and on the left side of drum in photos 12 and 13.

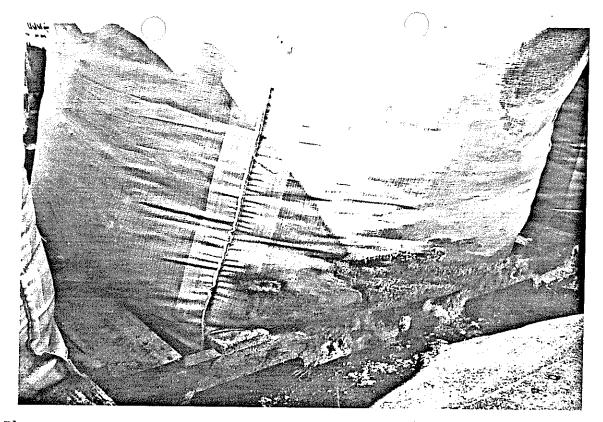
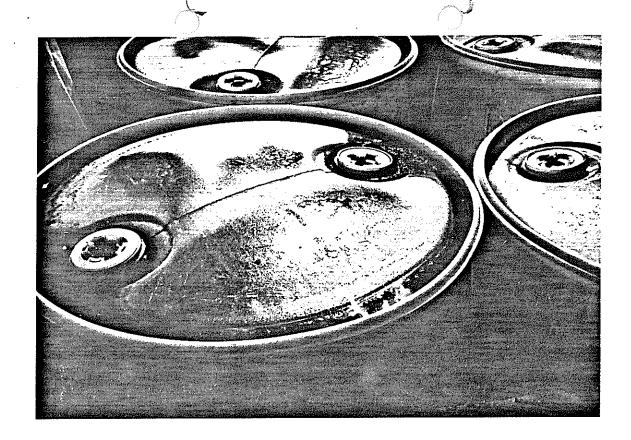


Photo 15: Product Storage Pad - Ruptures and spills from three bags where noticed in Rows 22 and 23.

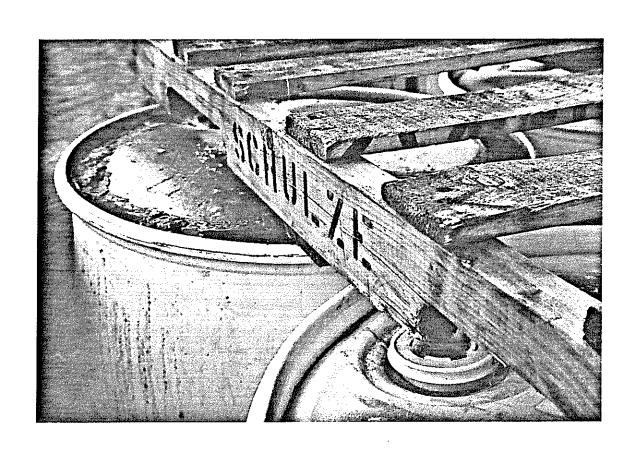


Photo 16: Product Storage Pad - Batch number of bag shown in photo 15.

P



Photos 17 & 18: Product Storage Pad - Spills of organic salt residue on top of the drums and on the sides.



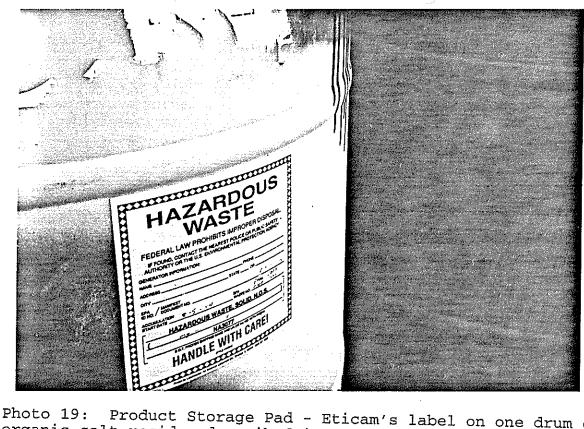


Photo 19: Product Storage Pad - Eticam's label on one drum of organic salt residue described in photos 17 and 18. The readable waste codes are: D007, D008, F006, F007, F008 & F009. The accumulation start date is 8-5-94.

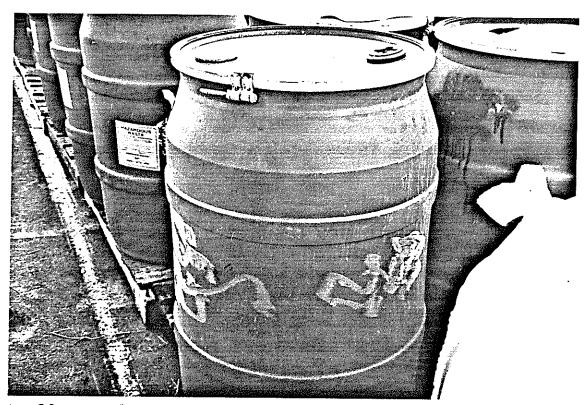


Photo 20: Product Storage Pad - An unlabelled drum. All markings had been obliterated.

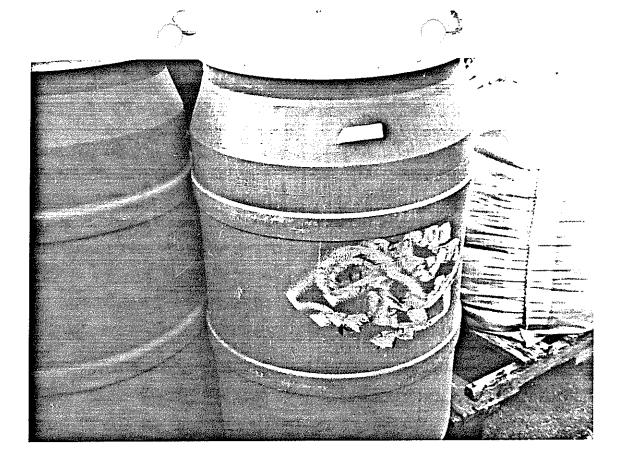


Photo 21: Product Storage Pad - Another view of photo 20 to show there was no label. Mr. Enochs, Facility Manager, looked at this drum from every angle and agreed that there was no label.

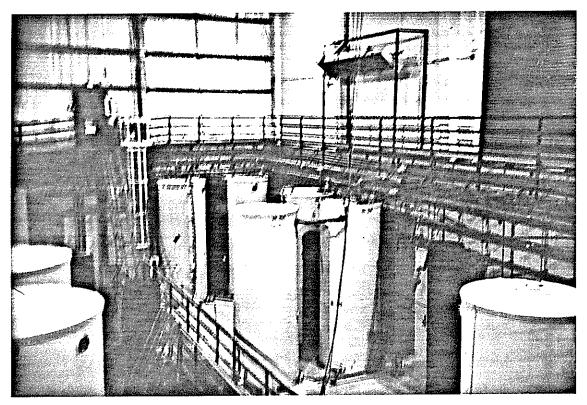


Photo 22: Tank Storage Area. The tank surfaces, flooring and berms were in good condition.

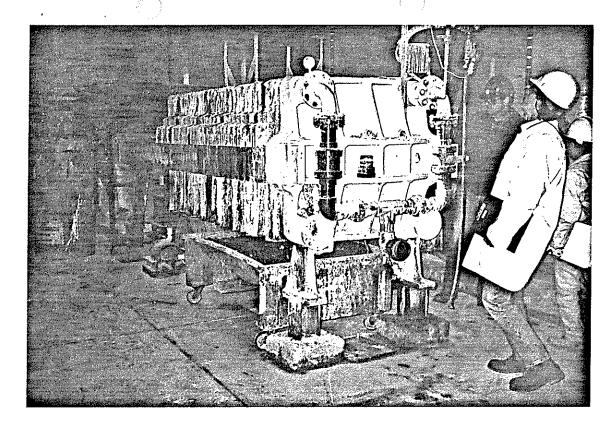


Photo 23: Crystallizer/Evaporator Room. Liquids are separated out by a filter press.

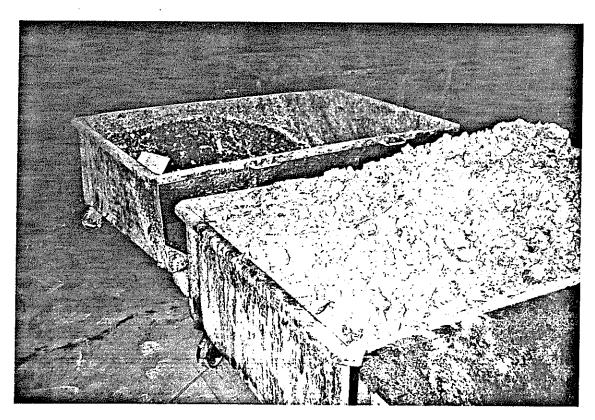
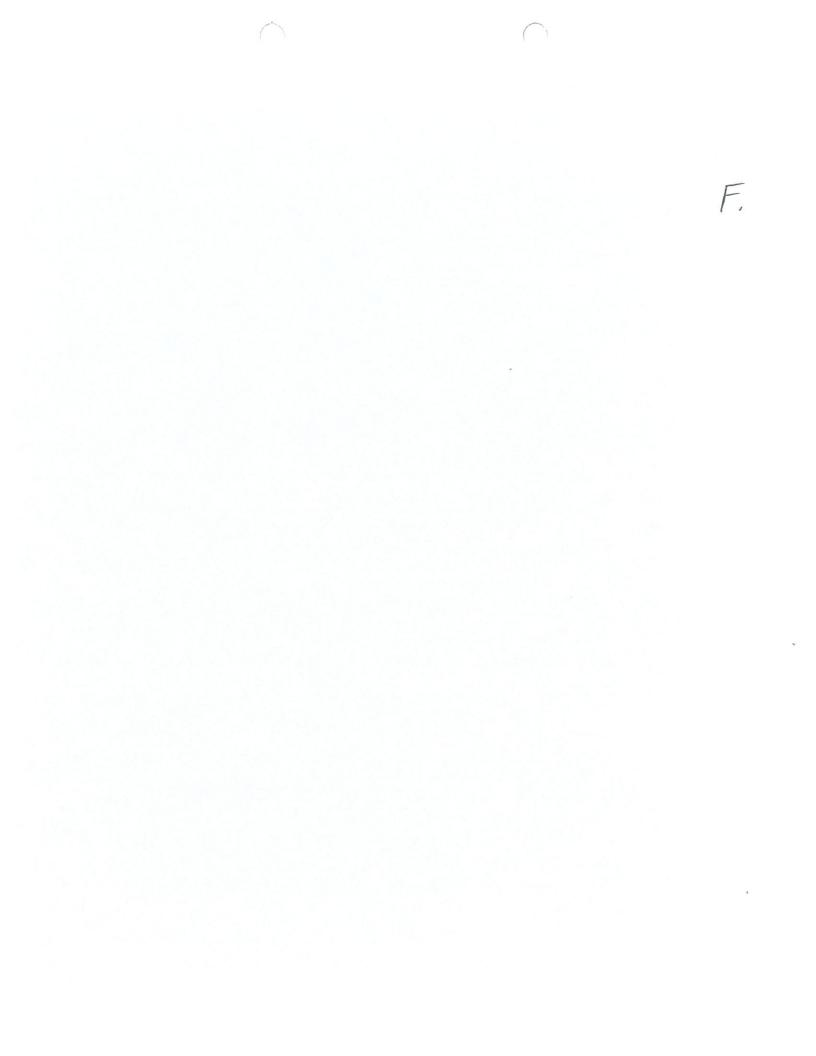


Photo 24: Crystallizer/Evaporator Room. Filter press area. Slurry produced from the de-watering procedure.



February 24, 1995

Mr. Fred Melillo MDSSC - Huntington Beach 5301 Bolsa Aveune Huntington Beach, CA 92647

Dear Fred,

ETICAM is located at 2095 Newlands Drive East, Fernley, Nevada. On March 25, 1985 ETICAM (EPA ID# NVD980895338) submitted a Part A and Part B Permit Application to the Nevada Division of Environmental Protection (NDEP) and the EPA. ETICAM received a RCRA hazardous waste facility permit, number NEVHW001, issued by NDEP, for treatment and storage of metallic wastes for metal recovery on December 24, 1986. ETICAM's treatment and reclamation process produces metal bearing concentrates and other products that are recycled to metallurgical industry. Metals that are reclaimed include cadmium, calcium, chromium, cobalt, copper, gold, iron, lead, nickel, silver, tin and zinc.

ETICAM is a hazardous waste storage and treatment facility operating in the following functions:

- Acceptance of hazardous and non-hazardous industrial waste from various generating industries.
- Acceptance of metal containing wastes for reclamation.
- Treatment of aqueous liquids, slurries, and solids from industrial waste in tanks, filters, and other recovery equipment within the facility.

Many types of hazardous wastes are accepted and treated at ETICAM in which the material can be identified as a listed waste as define in 40 CFR 261 Subpart D. Through ETICAM's treatment processes the material is reclaimed but must be reclaimed further before the intended recovery is completed. The resulting material from ETICAM's process is a concentrate which is commodity-like, however, not a commercial product even though there is a demand and need for ETICAM's material.



recovering the metal(s). For each facility that ETICAM has agreement with, there are material (physical chemical) specifications for the acceptance and processing material. The material shipped by ETICAM, satisfies the predetermined specifications for processing and recycling of our material. The metal bearing materials that ETICAM produces and generates contain distinct metal concentrations as a result of our proprietary hydrometallurgical process, source reduction, waste minimization and blending techniques.

At this point, we feel that ETICAM's metal bearing material is similar to ores, fluxes and minerals that are considered commodities.

Most ores in the earth are not mined in a suitable form for metallurgical extraction processes, and they often do not contain a very high proportion of value minerals. Mineral dressing is always necessary for the ore so that a concentrate can be achieved, thereby allowing methods of extraction to be applied. Mineral dressing may be defined as processing short of chemical alteration of the minerals. ETICAM generates and produces its own "concentrate" thereby clearly achieving two of the primary goals of RCRA. The two goals in reference are 1) to conserve energy and natural resources and 2) to ensure that wastes are managed in an environmentally sound manner.

Smelting is the most familiar type of pyrometallurgy which consists of elevated temperatures and covering a wide range of metals for their production. There are different types of smelting which include using reducing agents such as carbon, refining by preferential oxidation (fire refining), matte smelting and finally in the utilization of conversion in the extraction of copper and nickel from sulfides. Slag chemistry is an extremely critical part in the smelting of The slag chemistry must function at a low enough temperature for the following reasons; 1) assisting the process to work economically due to energy requirements for heat input, 2) minimize wear upon the refractory of the equipment and 3) reduce safety hazards associated within the industry. To enhance the stated objectives for the slag chemistry, materials are blended into the furnace such that the slag is fluxed. Fluxes such as lime, feldspars, quartz or iron oxide may be added solely to lower the liquidus temperature and viscosity of the slags. having the correct composition and structure to dissolve impurities and gangue minerals at low activity, thereby allowing desired slag/metal reactions to occur in the smelting process.



TABLE I

	(metric	tons)	
Cadmium		ŕ	3,400
Calcium	(lime)	18,1	30,000
Chromium	1	4	35,000
Copper		2,3	00,000
Cobalt		•	7,200
Gold			100
Iron		154,3	00,000
Lead		1,2	20,000
Nickel		1	45,000
Silver			3,900
Tin		45,0	00,000
Zinc		1.2	25.000

Data complied by U. S. Department of the Interior, Bureau of Mines, Mineral Commodity Summaries 1993.

(5) The following criteria for the handling of the product will ensure the minimization of any loss of material.

The material is packaged in approved DOT containers for shipment off site for recycling. All containers are labeled, marked, sampled, and chemically analyzed so that the material is handled to minimize any loss. The chemical analytical report generated by the laboratory is correlated with the labeled container for the tracking of ETICAM's product. All containers are inspected on the facility inspection log in respect to 40 CFR 264.174.

The inspector will note the following conditions: stacking of containers, proper labeling, spills, residues associated with containers, aisle ways, housekeeping, container leaks, and overall container condition. The inspection paperwork will indicate a description of the problem, if any, the remedy of that particular problem, and the date that the problem was corrected.

Best Management Practices (BMP) are methods, procedures, physical structures and guidelines that are used at ETICAM to reduce the pollutants in storm water discharges associated with industrial activity at the facility. The management practices listed will protect the overall quality of the environment. Relevant elements of the BMP's are built upon the environmental management plan that is indicated in 40 CFR 264 and are documented in ETICAM's Part B Permit.



The following spill control equipment is or will be available on-site in the receiving bays:

- 20 empty open-head drums.
- 5 shovels.
- 40 50 lb. bags of industrial absorbent.
- Emergency generator.
- Sump (pit) pumps.

A stock of protective equipment is be maintained at the facility for use by personnel during an emergency and will be stored on site:

- 1. Protective Masks
- 2. Cartridges for Masks
- 3. Canisters for Full Face Masks
- 4. Self-contained breathing apparatus
- 5. Disposal TYVEK suits equipped with hoods, boots, and lightweight gloves
- 6. Pairs of heavy-duty gloves and boots
- 7. Hard Hats
- 8. Full protective Fire Department Turnouts with coats, pants and helmets w/visor
- 9. Acid Resistant Suits

A) Decontamination Equipment

- 1. There are two standard emergency eyewash showers located within the truck receiving bays. These showers will be used to decontaminate the emergency equipment. If necessary, water and mild soap solution will be mixed up within a bucket for removal of any additional contamination.
- 2. The eyewash/showers are standard emergency showers capable of at least 40 gallons/minute flow for as long as necessary.



Packaging

The packaging of all materials for storage and/or shipment are in DOT approved containers. Containers are properly labeled and marked.

Marking

All containers will be label with durable and legible markings. All labeling must be clearly visible and may not be obscured by markings or attachments.

Recordkeeping

ETICAM documents the following:

- a. The date of each shipment and the facility it was sent to.
- b. A letter from the receiving facility that the material is used in their process as an ore or other product.
- c. The receiving facility or ETICAM have the necessary equipment to do the reclamation.
- d. The recycler will provide letters that certain quantities of material were received, the material was recycled, and the amount of recovered metal.

The recordkeeping for the product is kept on site for a minimum of three years and is available at all reasonable times for inspection, by any officer, employee, or representative of the NDEP who is duly designated by the Regional Administrator. The stated criteria for the handling of the product will ensure the minimization of any loss of material.

ETICAM keeps a written operating record that includes inventory information for the product, hazardous waste, and chemical reagents located on site. This operating record is updated continuously.

Material Requirement Planning

All materials on site will utilize a material requirement system such that all quantities of material on site will be kept to a minimum. By keeping chemical reagent inventory to a minimum, storage of this material may be kept inside the facility thereby minimizing the handling of the chemicals. Optimizing shipment schedules to other facilities will reduce the time that material is on site.

PAGE 9





CHEMETCO

34 N. 45TH AVE, SUITE E

MIKE REGA, MARKET MANAGER

PH: 800/368-2673

602/272-8088

FAX: 602/272-8213

ETICAM 2095 NEWLANDS DR. EAST

FERNLEY, NV 89408 ATTN: PAT ENOUCH PH: 702/575-2760 FAX: 702/575-2803

Mr. Enouch,

Please find some basic information on our company attached. It should help to make clear who we are and what we do...but a couple of things deserve stress:

- Chemetoo is a secondary copper refinery. So we recover copper, tin, lead and precious metals solely via the melting of scrap and other secondary by-products.
- Chemetoo recovers the above elements and uses them to create two basic products, copper anode and a raw lead/tin solder.
- The copper anode is sold to other companies and is further refined typically to either Cu Cathode or to other high grade products such as wire.
- The Pb/Sn solder is also sold to another company who further purifies the product either to very high grade Pb/Sn solder or to Tin Cathode.
- Chemetco's process also uses other elements such as Fe typically in the form of scrap Tin Cans as fluxing agents in our process.
- Chemetco can recover the above mentioned elements from virtually any material at virtually any level of content however Chemetco is not a treatment facility and does not and can not receive manifested material of any kind.

Thanks for your consideration...MTREGA



PHOENIX WAREHOUSE

34 N. 45th Avenue, Suite E • Phoenix, AZ 85043 800/368-2673 • 602/272-8088 • 602/272-8213 (fax)

January 17, 1995

21ST CENTURY ENVIRONMENTAL MANAGEMENT, INC. 2095 Newlands Drive E Fernley, Nevada 89408

Attn: Mr. Mickey Lawler

Re: Copper Bearing Spent Sulfur Sober Catalyst

Dear Mickey:

This is in reference to our January 16th conversation regarding the 70 drums of copper bearing spent catalyst you have available.

The high phosphorus and sulfur content of this material presents a true challenge if not a down and dirty problem. With this in mind we can offer you 1.5 cents per dry pound of material delivered Chemetco's Hartford, IL plant.

We await your advice.

Very truly yours,

Charles E. Dunhe

<u> 20 Laurente la proposación de la companya de la c</u>

CHEMETCO

34 N. 45TH AVE, SUITE E

MIKE REGA, MARKET MANAGER

PH: 800/368-2673 602/272-8088

FAX: 602/272-8213

Chemetco, Inc. is a secondary copper smelter located in a primarily agricultural residential area slightly south of Hartford, Illinois and north of St. Louis, Missouri. Secondary copper smelters separate and purify the metal values from low-grade copper bearing materials such as copper and copper alloy scrap, slags, skimmings and other non-ferrous materials. Chemetco produces unalloyed (versus "alloyed", i.e. brass and bronze) anode. Unlike many other copper smelters, Chemetco can use any copper-bearing item to produce pure copper anodes.

Chemetco utilizes four top-blown rotary converters to produce four products from the smelting of copper bearing materials: copper anodes, lead/tin solder, crude zinc oxide and slag aggregates. The process is a series of reductions and oxidations using various flux materials. Flux materials such as sand, iron and lime function in two ways. The first to somewhat lower the melting temperature of the metals. The second involves what is known as "Flux refining". This involves the contact of two immiscible molten phases. In this instance the impure metal and the flux act as an acidic oxide that is both an oxidant and a solvent for the impurities in the metallic phase. During the contacting of the two phases, impurities in the metal phase that are oxidized pass into the acidic oxidant phase. This creates what is eventually termed "slag".

Flux materials in the process are used, i.e., limestone is not recycled back into limestone, nor is sand recycled back into sand. They are used in the process for their chemical properties and become a completely different product, slag, that Chemetco processes for use in road construction projects. Minor metal impurities in the sand do not effect the metallurgical process. In fact, use in smelting operations such as Chemetco's is an excellent second use of sand fluxes, especially since any metal impurities can be recovered in the metal phases of other Chemetco products.

Chemetco, Inc. generates no waste materials from the production process. The only wastes generated are solid, non-hazardous wastes such as cardboard boxes, wood pallets and office wastes. The boxes are sent to a local recycler and the other materials are removed by a local waste disposal company. Other waste materials include cleaning solvents and waste oil from the maintenance of heavy mobile equipment. The solvents are provided and removed by Saftety-Kleen Corporation. The waste oil is periodically tested and is not hazardous. It's removed and manifested as non-hazardous special waste and is burned for fuel.

Chemetco is a net consumer of water with no discharge except for stormwater runoff from a small unused area of the 40 acre plant-site. This discharge is N.P.D.E.S. permitted. Water is drawn from two facility wells drilled down into the bedrock that are capable of pumping 750 gallons per minute for contact and non-contact cooling water. In addition, stormwater is collected from active portions of the property for use in the contact cooling water system. Net water usage is over 1,000,000 gallons per month. Due to the high temperatures associated with copper smelting, the main loss of water is to steam and evaporation. However a small amount of water leaves the plant as moisture in the wet zinc oxide cake.

Chemetco, Inc. is not a hazardous waste treatment facility. Neither does Chemetco have a Resource Conservation and Recovery Act Part B permit allowing us to accept material accompanied by a hazardous waste manifest. Chemetco, Inc. expressly reserves the right to refuse shipment of such materials.

The same of the sa

LEKIMIT ON THE LIGHT ON

Generator Required Analysis

.....

SMELTER Permitted. TSD

From Patenoch 9

Rockwood, Tennessee
Permit Limits
(DRY BASIS)
ents
Min. % Max. %

Chicago, Illinois Permit Limits (DRY BASIS)

Elements	Min. 9	6 Max. 9
Water	0.0	70.0
Oil & Grease	0.0	5.0
Zinc (Zn)*	2.0	80.0
Lead (Pb)	. 0.0	20.0
Iron (Fe)	0.0	80.0
Manganese (Mn)	0.0	25.0
Aluminum (AI)	0,0	50.0
Calcium Oxide (CaO)	0.0	50.0
Chrome (Cr)	0.0	5.0
Nickel (Ni)	0.0	10.0
Cadmium (Cd)	0.0	10.0
Silica Oxide (SiO2)	0.0	40.0
PCB	0.0	0.0
Mercury (Hg)	0.0	0.0
Cyanide Non-Reactive (CN)		570 ppm

*Recoverable	Zinc	Required
Permitted Mat		

K051 F006 F019

'D' Series Non-Hazardous

Oil & Grease tested via Freon Extraction

file:permtcht

	וטוניתט זיוועו	
Elements	Min. 9	6 Max. 9
Water	0.0	
Oil & Grease	0.0	2.0
Zinc (Zn)**	5.0	100.0
Lead (Pb)	0.0	20.0
iron (Fe)**	8.0	
Manganese (Mn)	0.0	20.0
Calcium (Ca)** s	15.0	100.0
Chrome (Cr)	0.0	
Nickel (Ni)	0.0	10.0
Cadmium (Cd)	0.0	3.0
PCB	9 0.0	0.0
Mercury (Hg)	0.0	0.0
Cyanide Non-Reactive (CN)	0.0	570 ppm

**Recoverable Zinc or Iron or Calcium Required

Lentinified	Materials:
K061	D004
K062	D005
K066	D006
F006	D007
F007	D008
F008	D009
F009	.0010
F019	D011
	m 0 4 4

Non-Hazardous

Medmer ... Koad #

ETICAM --- FERNLEY PLANT

Product Analysis Computer Generated Composite of individual Drum Analysis

METALS

Element	% by Wt
·	50000 000-0 000 to 100-0 0
Al:	0.24
Caş	0.02
Cd:	0.00
Or a	0.02
Cur	10.04
Fer	7.68
Mg:	0.02
Ni:	0.05
F7 5	8.07
Fb:	្.18
Zn:	4.82
Hg:	0.265 mg/kg
OTHER DE	TERMINATIONS

Insol. Residue: NA %
% Moisture: 0.15 %

Total Number of drums. etc: 40 Total Shipment Weight: 27000 1bs

Elemental analysis performed on acid digested samples based on EPA Method 3050. SW-846.

---- ALL PERCENTAGES ARE ON A DRY WEIGHT BASIS ---All averages are weighted averages

This represents a composite analysis of containers on this shipment based on previous analysis of each batch.

1) D Chame too land 42

DRUM # ____ BOX # (DM) DRUM # (DF)(BA) (CF) BAG 非 TRACKING/BATCH # DATE ACCUMULATED WEIGHT B-950056 994-352 12/01/1994 984 B-950057 894-352 12/01/1994 635 594-352 B-950058 12/01/1994 820 B-950059 S94-352 12/01/1994 392 B-950060 894-352 12/01/1994 300 B-950061 594-352 12/01/1994 912 B-950062 894-352 12/01/1994 512 B-950063 994-352 12/01/1994 512 B-950064 594-352 12/01/1994 614 B-950065 594-352 12/01/1994 979 B-950066 894-352 12/01/1994 842 B-950067 \$94-352 12/01/1994 752 B-950068 894-352 12/01/1994 325 B-950069 894-352 12/01/1994 473 B-950070 994-352 12/01/1994 649 B-950071 894-352 12/01/1994 음작용 B-950072 894-352 12/01/1994 885 8-950073 894-352 12/01/1994 363 B-950074 894-352 12/01/1994 266 B-950075 894-352 12/01/1994 388 B-950076 594-352 12/01/1994 550 B-950077 \$94-352 12/01/1994 907 B-950038 594-392 12/19/1994 812 B-950039 S94-392 12/19/1994 813 B-950040 894-392 12/19/1994 645 B-950041 594-392 12/19/1994 644 B-950042 594-392 12/19/1994 695 B-950043 S94-392 12/19/1994 695 B-950044 894-392 12/19/1994 648

LE D

DRUM # ____ (DM) DRUM # ____ (DF) BAG # ____ (BA) BOX # ____ (CF) BAG # : TRACKING/BATCH # DATE ACCUMULATED WEIGHT B-950045 594-392 12/19/1994 647 B-950046 594-392 12/19/1994 779 B-950047 S94-392 12/19/1994 779 B-950048 894-392 12/19/1994 479 B-950049 894-392 12/19/1994 478 B-950050 594-392 12/19/1994 792 8-950051 894-392 12/19/1994 792 B-950052 894-392 12/19/1994 808 B-950053 894-392 12/19/1994 808 B-950054 594-392 12/19/1994 884 B-950055 | 894-392 12/19/1994 884 TOTAL WEIGHT = 27000

ICAM --- FERNLEY PLANT

Chestratio

Load #2

Product Analysis
Computer Generated Composite of individual Drum Analysis

METALS

Element	% by Wt
A1:	0.10
Ca:	0.09
Cd:	0.00
Or:	0.02
Cu:	6.67
Fe:	9.48
Mg:	0.12
Ni:	0.08
P :	5.47
Pb:	0.12
Zn:	2.45
Hg:	0.146 mg/kg
OTHER DET	ERMINATIONS

Insol. Residue: NA. % % % % Moisture: 5.11 %

Total Number of drums, etc: 34
Total Shipment Weight: 26160 lbs

Elemental analysis performed on acid digested samples based on EFA Method 3050, SW-846.

---- ALL PERCENTAGES ARE ON A DRY WEIGHT BASIS ---All averages are weighted averages

This represents a composite analysis of containers on this shipment based on previous analysis of each batch.

LI D Chemetoo Loua T

(MU)	DM) DRUM # (DF)	BAG # 37 (BA) BOX	#(CF)
BAG # !	TRACKING/BATCH #	DATE ACCUMULATED	WEIGHT
B-941332	S94-282	10/07/1994	1306
B-941333	S94-282	10/07/1994	607
B-941334	S94-282	10/07/1994	952
B-941335	S94-282	10/07/1994	619
B-941336	, 894-282	10/07/1994	935
i		TOTAL WEIGHT	= 26160

DRUM #

CMCD

Chemetro Loa

10-7-94

BAG # J DRUM # (DF) (BA) BOX # (CF) BAG # TRACKING/BATCH # DATE ACCUMULATED WEIGHT B-941219 S94-230 08/25/1994 704 B-941220 S94-230 08/25/1994 480 B-941221 594-230 08/25/1994 301 B-941222 894-230 08/25/1994 900 B-941223 594-230 08/25/1994 835 B-941224 \$94-230 08/25/1994 1053 B-941225 894-230 08/25/1994 814 B-941226 594-230 08/25/1994 878 B-941227 S94-230 08/25/1994 912 B-941228 994-230 08/25/1994 386 B-941229 S94-230 08/25/1994 301 B-941230 594-230 08/25/1994 348 B-941315 S94-282 10/07/1994 802 B-941316 S94-282 10/07/1994 338 B-941317 S94-282 10/07/1994 959 B-941318 S94-282 10/07/1994 906 B-941319 \$94-282 10/07/1994 448 B-941320 594-282 10/07/1994 1081 B-941321 S94-282 10/07/1994 1090 B-941322 594-282 10/07/1994 773 B-941323 \$94-282 10/07/1994 707 B-941324 594-282 10/07/1994 405 B-941325 594-282 10/07/1994 865 B-941326 S94-282 10/07/1994 802 B-941327 \$94-282 10/07/1994 927 B-941328 S94-282 10/07/1994 948 B-941329 S94-282 10/07/1994 1243 B-941330 S94-282 10/07/1994 330 B-941331 S94-282 10/07/1994 677

21st CENTURY EMI

Facility Address: 2095 Newlands Dr., East Fernley, NV 89408

Phone: (800) 648-9931 FAX: (702) 575-2803

Waste Acceptance

JAN 27 1995

TO:

Criterion Catalyst

ATTN:

Ron Sigourney

2850 Willow Pass Road

P.O. Box 5159

Pittsburgh, CA 94565

(510) 458-7217

GENERATOR:

Criterion Catalyst

WASTE NAME:

E Citric Acid Spent

PROFILE #:

F95-018-01

LOG#

N2811

ACCEPTANCE ENDS:

1/17/96

PRICING:

A minimum charge of \$250.00 will be assessed	on scheduled waste.	In accordance wit	h CFR 40	Subsection 264.12 Section B. and our
RCRA permit Section K.2, Notice to generator: will accept the above described waste."	"ETICAM of Female	V.NV.a complete	ly insured	and licensed (part R permit) TSD Facility
will accept the above described waste."				are received four p benunch 12D Lacing

ales and Marketing Representative

Patrick Enochs, Facility Manager

Date 1/17/95

TERMS AND CONDITIONS

Please review the following, and return a signed copy to ETICAM's Fernley facility prior to scheduling.

- All deliveries must be scheduled in advance with ETICAM's Fernley facility. An authorization number will be issued for each shipment, and no shipments will be accepted without this number. Profile numbers and waste codes must be on each manifest.
- 2 Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest
- 3 "RCRA Land Disposal Restriction Notification" must accompany each manifest.
- The waste generator or a representative must be available for communication by telephone or facsimile during the time of receipt of the waste. Please list contact number in BLOCK 15 of the manifest.
- For bulk loads, a weigh ticket from a certified scale indicating the laden, unladen and net weights of the load must accompany each manifest.
- Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
- Miscellaneous debris, waste, float oil or emulsions may not be acceptable. There will be an additional charge of \$3.00/lb for removal of this material.
- Material not conforming to the "Generator's Waste Profile" may be subject to additional charges or rejection.
- All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment including:

 Tyvec suit, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT, and EPA regulations.
- Shipping containers must meet DOT CFR 49 requirements. There is a \$125.00 charge for each leaking container plus any additional spill cleanup costs.
- ETICAM, Inc. reserves the right to dispose of material not deemed recyclable or not conforming to recycling specifications.

Customer Signature: Oonal Sigourney Date: 1-26-95

H.

Oct.	CHEMPHONE .			· Oantant Talanba	saa Niuw	bor UL	e II II. Servano di tro			· ·	97-24 (A)
Oraș			, ⊢mergency	y Contact Telepho	ne nun	IDP					
eon	prosioned U	INIFORM HAZARDOUS	1. Generator's US	S EPA ID No.	Ma Docur	ment No.	2. Page			aded areas eral law	is
	3. Gener	WASTE MANIFEST ator's Name and Mailing Address	N V D 9 8	- 0. 8. 9. 5. 3. <u>3.</u>	8 0 0	6. 6. /		Manifest Docume	nt Numb	er (attend)	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A		ĪČAM 95 Newlands Dr. E., Fei	rnlev. NV	89408		}	R State	94000667 Generator's ID			
	i .	rator's Phone (702) 575 270					• • • • •	, inchi	ज्ञान में हुन हुन	(19 अस्तर संति ।	
	5. Transp	porter 1 Company Name		6. US EPA ID C. A. D. 9. 8. 2.	Number	6 N 8	C. Stat	e Transporter's ID	800 3	22 537	6
		VS Transportation porter 2 Company Name		8. US EPA ID				e Transporter's ID			<u> </u>
								sporter's Phone			-
20100 214	9. Desigr	nated Facility Name and Site Address PRUS MIAMI MINING CO.		10. US EPA ID) Number		G. Stat	e Facility's ID AZD060624		**	
197	Hwy	y 60 - 70 Inspiration 1	Rd.		624	2 5 1	H. Fac	lity's Phone 602 473 7			
Per la		AYPOOL, AZ 85332 DOT Description (Including Proper Shipping	n Name Hazard Clar	A. Z. D. 0. 6. 0.	0, 2, 4,	2, 5, 1 12, Conta	iners	13.	14.		
1	11. US L НМ					No.	Туре	Total Quantity	Unit Wt/Vol	Waste	No.
26(0)	a.	RQ, Hazardous Waste So PG III, (Copper, Chro	olid, N.O.S	6., 9, NA 3077	7, ides)					**************************************	
Control		PG III, (Copper, Circ)	He & Outer	Fecal Hydrox	7006	0.0.1	C· M	0.0.0.2.8	Y	F006	
G	b.									؞ ؿ ڹڔڴڔڿ؞؞؞ ؞؞؞	· · · · ·
GHZHR											
RAT	c.									• • • • • • • • • • • • • • • • • • •	
T O R										e /	
	d.										14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
											·
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J. Additi	and not a waste. The a manifest on an in	considers his materia	al is being sl s as required	nipped	under		dling Codes for Wa	asies Listi	-	
							·				
18:17:57	Wear ERG	cial Handling Instructions and Additional In r Protective clothing #: 31	formation		24 Hou Nation	r Emer al Res	genc <u>y</u> pons	y Phone: (e CEnter:	800) 800 4	648-99 124 880)31)2
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Wear ERG Copp	cial Handling Instructions and Additional In r Protective clothing #: 31 per <20%	formation as required	at this consistement are f	Nation	al Res	ponse	e CEnter:	800 4	124 880)2
1	Wear ERG Copp 16. GEN pack If I a prac	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decked, marked, and labeled, and are in all respectant a large quantity generator, I certify that I in the strict of the practicable the environment; OR, if I am a small quantity or Protection in the strict of	formation as required clare that the contents ats in proper condition have a program in plan	s of this consignment are for transport by highway acceto reduce the volume a	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name	e and are cla egulations.	assified, omically health
1	Wear ERG Copp 16. GEN pack If I a prace and avail	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decied, marked, and labeled, and are in all respectance along quantity generator. I certify that I is	formation as required clare that the contents ats in proper condition have a program in plan	s of this consignment are for transport by highway acceto reduce the volume a	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name nmental re determined d future thr e manage	e and are classifications. It to be economicated to human ment method	essified, emically health that is
▼	Weat ERG Copt 16. GEN pack If I a prac and avail Prin	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decided, marked, and labeled, and are in all respectance and that I have selected the practicable the environment; OR, if I am a small quantity liable to me and that I can afford. Itted/Typed Name ebra L. Currier	Iformation as required Plare that the contents ts in proper condition have a program in plante method of treatment generator, I have man	s of this consignment are for transport by highway ac ce to reduce the volume at t, storage, or disposal currede a good faith effort to mi	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name nmental re determined d future thr e manage	e and are cla egulations. I to be econo eat to human ment method	assified, assified, amically a health a that is Year
TRA	Weat ERG Copt 16. GEN pack If I a prac and avail Prin	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decided, marked, and labeled, and are in all respectant a large quantity generator, I certify that I is citicable and that I have selected the practicable the environment; OR, if I am a small quantity liable to me and that I can afford.	Iformation as required Plare that the contents ts in proper condition have a program in plante method of treatment generator, I have man	s of this consignment are for transport by highway ac ce to reduce the volume at t, storage, or disposal currede a good faith effort to mi	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name remember to the transfer of the tran	e and are classifications. It to be economicated to human ment method	essified, emically health that is
▼	Weat ERG Copt 16. GEN pack If I a prac and avail Prin	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decised, marked, and labeled, and are in all respectant a large quantity generator. I certify that I have selected the practicable the environment; OR, if I am a small quantity liable to me and that I can afford. Inted/Typed Name Ebra L. Currier Insporter I Acknowledgement of Receipt of the practical properties of the practical properties.	Identification as required clare that the contents clain proper condition have a program in place e method of treatment generator, I have man	s of this consignment are for transport by highway acce to reduce the volume at t, storage, or disposal currede a good faith effort to mi	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name remember to the transfer of the tran	e and are classifications. It to be economicated to human ment method fonth Day	assified, omically health dithat is Year.
▼	Weat ERG Copt 16. GEN pack If I a prac and avail Prin	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decised, marked, and labeled, and are in all respectant a large quantity generator, I certify that I have selected the practicable the environment; OR, if I am a small quantity liable to me and that I can afford. Inted/Typed Name ebra L. Currier Insporter 1 Acknowledgement of Receipt of	Identification as required clare that the contents clain proper condition have a program in place e method of treatment generator, I have man	s of this consignment are for transport by highway acce to reduce the volume at t, storage, or disposal currede a good faith effort to mi	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name remental redetermined future three manage	e and are classifications. It to be economicated to human ment method fonth Day	assified, omically health dithat is Year.
1	Weat ERG Copt 16. GEN pack If I a prac and avaii Prin De 17. Trar Prin [18. Trar	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decised, marked, and labeled, and are in all respectant a large quantity generator, I certify that I have selected the practicable the environment; OR, if I am a small quantity diable to me and that I can afford. Inted/Typed Name Pebra L. Currier Insporter 1 Acknowledgement of Receipt of the practical properties of the practical properties. SACO Insporter 2 Acknowledgement of Receipt of the practical properties of the practical properties.	Identification as required clare that the contents clain proper condition have a program in place e method of treatment generator, I have man	s of this consignment are for transport by highway acce to reduce the volume at t, storage, or disposal curre de a good faith effort to missing a signature. Signature	Nation	al Res	ponse	ove by proper ship. I and national gover the degree I have of	ping name remental redetermined future three manage	e and are classifications. It to be economical to human ment method fronth Day	assified, omically a health of that is Year Year Year 19.4
▼	Weal ERG Copt 16. GEN pack If I a prac and avaii Prin De 17. Trar Prin [18. Trar Prin 19. Disc	cial Handling Instructions and Additional Interpretative clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decised, marked, and labeled, and are in all respectant a large quantity generator. I certify that I have selected the practicable the environment; OR, if I am a small quantity liable to me and that I can afford. Inted/Typed Name Currier Insporter 1 Acknowledgement of Receipt of inted/Typed Name The Company of Receipt of Inted/Typed Name Crepancy Indication Space	Information as required that the contents that the contents that in proper condition have a program in place the method of treatment or generator, I have man Materials Materials	s of this consignment are for transport by highway acce to reduce the volume att, storage, or disposal currede a good faith effort to missignature Signature Signature	Nation	curately descripplicable into f waste genera	ponse cribed abernational arated to chiminim tion and	ove by proper ship I and national gover the degree I have of ized the present and select the best was in the degree I have on the degree I have on the present and select the best was in the best was in the degree I have on the degree I have	ping name remental redetermined future three manage	e and are classifications. It to be economical to human ment method fronth Day	assified, omically a health of that is Year Year Year 19.4
TRANSPORTER FACILI	Weal ERG COPT 16. GEN pack If I a prac and avail Prin De 17. Trar Prin (18. Trar Prin 19. Disc	cial Handling Instructions and Additional In Protective clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decised, marked, and labeled, and are in all respectant a large quantity generator, I certify that I have selected the practicable the environment; OR, if I am a small quantity diable to me and that I can afford. Inted/Typed Name Pebra L. Currier Insporter 1 Acknowledgement of Receipt of the practical properties of the practical properties. SACO Insporter 2 Acknowledgement of Receipt of the practical properties of the practical properties.	Information as required that the contents that the contents that in proper condition have a program in place the method of treatment or generator, I have man Materials Materials	s of this consignment are for transport by highway acce to reduce the volume att, storage, or disposal currede a good faith effort to missignature Signature Signature	Nation	curately descripplicable into f waste genera	ponse cribed abernational arated to chiminim tion and	ove by proper ship I and national gover the degree I have of ized the present and select the best was in the degree I have on the degree I have on the present and select the best was in the best was in the degree I have on the degree I have	ping name remental redetermined future three manage	e and are classifications. It to be economical to human ment method fronth Day	assified, omically a health of that is Year Year Year 19.4
TRANSPORTER FACT	Weat ERG Copt 16. GEN pack If I a prac and avaii Prin 17. Trar Prin (18. Trar Prin 19. Disc	cial Handling Instructions and Additional Interpretative clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decided, marked, and labeled, and are in all respectant a large quantity generator. I certify that I have selected the practicable the environment; OR, if I am a small quantity inable to me and that I can afford. Inted/Typed Name Pebra L. Currier Insporter 1 Acknowledgement of Receipt of inted/Typed Name The Acknowledgement of Receipt of inted/Typed Name Crepancy Indication Space Sility Owner or Operator: Certification of receipt Of Inted/Typed Name	deformation as required clare that the contents at in proper condition have a program in place method of treatment generator, I have man Materials Materials	s of this consignment are for transport by highway acce to reduce the volume att, storage, or disposal currede a good faith effort to missignature Signature Signature	Nation	curately descripplicable into the waste general course general cou	ponse cribed abernational arated to cheminimation and	ove by proper ship I and national gover the degree I have of ized the present and select the best was in the degree I have on the degree I have on the present and select the best was in the best was in the degree I have on the degree I have	ping name remental redetermined future three manage	e and are classifications. It to be economical to human ment method fronth Day	assified, omically health it that is Year Year Year
TRANSPORTER FACILITY	Weal ERG Copt 16. GEN pack If I a prace and avaii Prin Do 17. Trar Prin 19. Disc	cial Handling Instructions and Additional Interpretative clothing #: 31 per <20% IERATOR'S CERTIFICATION: I hereby decided, marked, and labeled, and are in all respectant a large quantity generator. I certify that I have selected the practicable the environment; OR, if I am a small quantity diable to me and that I can afford. Inted/Typed Name Pebra L. Currier Insporter 1 Acknowledgement of Receipt of Inted/Typed Name The Company of Receipt of Inted/Typed Name Crepancy Indication Space Sility Owner or Operator: Certification of receipt of the Integral of Integral Indication Space	deformation as required clare that the contents at in proper condition have a program in place method of treatment generator, I have man Materials Materials	s of this consignment are for transport by highway acce to reduce the volume at, storage, or disposal currede a good faith effort to mine. Signature Signature	Nation	curately descripplicable into f waste genera	ponse cribed abernational arated to cheminimation and	ove by proper ship I and national gover the degree I have of ized the present and select the best was in the degree I have on the degree I have on the present and select the best was in the best was in the degree I have on the degree I have	ping name remental redetermined future three manage	e and are classifications. It to be economicated to human ment method fronth Day Jonath Day Jonath Day	assified, omically health it that is Year Year Year

	-mergen	Cy Contact Telephon	2118/		era era de la comi	10 A	TIANT ENDANGE 2 30-94
	Stanting of the stanting of th	US EPA ID No.	Manifest Decument No.	2. Page		in the sh	aded areas is
	UNIFORM HAZARDOUS N.V.D. 9.	8.0.8.9.5.3.3.8	0.0.6.6.8	`of 1			
+	3. Generator's Name and Mailing Address		atur ir irom	A: .State	Manifest Docume 94000668	PER STA	Carried Augustin
1	1 2 4 7	:00400	:	B. State	Generator's ID	i de la colo	QUELTE ATM
	2095 Newlands Dr. E., fernley, NV	89408	'	f 'f rei 'escripe	The second secon		et forgiering de region de de legis de Companyon de legis d
	4. Generator's Phone (702 / 373-2700	C LIS EPA ID N	lumber .	C. State	Transporter's ID		
	5. Transporter 1 Company Name Dart Trucking Co., Inc.	O.H.D.0.0.9.8		D. Trans	sporter's Phone	800	426 0895
	7. Transporter 2 Company Name	8. US EPA ID N	lumber		Transporter's ID sporter's Phone		
		10. US EPA ID N	Jumber	G. State	Facility's ID.	er er er Gerina	5. 12 a. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
	9. Designated Facility Name and Site Address Envirosafe Services of Idaho, Inc.	101	14,1100		IDD00731	4654	
	10.5 Miles Northwest of Grandview				lity's Phone ≅ 203″ 834	2275	
	Grandview, ID 83623	I.D.D.0,7.3.1	.1.4.6.5.4	17.19.50		14.	
	11. US DOT Description (Including Proper Shipping Name, Hazard C	Class, and ID Number)	12. Cont		13. Total Quantity	Unit	I. Waste No.
	li in al		No.	Туре	Quartity		F006 - F009
	a. RQ, Hazardous Waste Solid, N.O. PG III (Wastewater Treatment S.	ludge) F006.F007	'.FUUD.			Į.	F019 and D004 - D011
	F019,D004,D005,D006,D007,D008,I	D009,D010,D011	0.0.1	C·M	0.0.0.5.0	Y	D004 - D01
		- 2004 V V V V					
GEN				.			
E R							energy to the second
Ā	с.		[
Ö)			 		<u> </u>	Appendig Aftintalism in The Survey September
ו	d.						Material Composition (Composition Composition Composit
				.			
	J. Additional Descriptions for Materials Listed Above	The second secon	!	K. Han	dling Codes for W	astes Lis	ted Above
	Profile NOt: 1139-1018	and the Administration of the Control of the Contro		1	クス	in American Section	भारत्रकात्रकात्रकात्रकात्रकात्रकात्रकात्र
	Dart Bin: 2017			श्री रेचा छ√	$\cdot \cup \cup \cdot$	i sterile National	eustensprij Na Sugtisch
	The second of th	and the second second			g- 2,-11 BD	<u>ئى رەسىيە.</u>	20%
	15. Special Handling Instructions and Additional Information	24 1	Hour Emerge	ncy I	Phone: 800	648-	-9931 ·
	WEar Protective clothing as requir		ional Respo				
		nat. nat /Di erosal	Remnired)				
8	ERG NO: 31 (Certificate of file of fil			scribed at	bove by proper ship	oping nan romental	ne and are classified, regulations.
	16. GENERATOR'S CERTIFICATION: 1 hereby declare that the con packed, marked, and labeled, and are in all respects in proper cond If I am a large quantity generator, 1 certify that I have a program in				the degree I have	determina	ed to be economically
	If I am a large quantity generator, I certify that I have a program in practicable and that I have selected the practicable method of treat	n place to reduce the volume and timent, storage, or disposal curre	ntly available to me w	nich minim	nized the present ar	d future t ste manac	hreat to human health gement method that is
	practicable and that I have selected the practicable method of treat and the environment; OR, if I am a small quantity generator, I have available to me and that I can afford.	, made a good	mulice iny waste gelle	- /1 /			Month Day Year
	Printed/Typed Name	Signature	h)	۱/ •	a polen		0.9 2.8 94
١	Debra L. Currier		SPO)		MCK GO		
	T 17. Transporter 1 Acknowledgement of Receipt of Materials	Signature			11		Month Day Year
	Printed/Typed Name N Kennett Luthen	102	mo c	<u> Lu</u>	the		09 28 94
	18. Transporter 2 Acknowledgement of Receipt of Materials						Month Day Year
	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Printed/Typed Name	Signature				ı	. . .
	R .				· · · · · · · · · · · · · · · · · · ·		
	19. Discrepancy Indication Space						
	F14.0010011/81						
	C		iloot ovecat oc	ated in Ita	m 19.		
	L 20. Facility Owner or Operator: Certification of receipt of hazardo	ous materials covered by this r	naniiesi except as n	7.60 III 118	an 194 '		
	T Y	· · · · · · · · · · · · · · · · · · ·		71			Month Day Yea
	Printed/Typed Name / DONNA TULLEN LOS ES	STE ZDO	nnar	Ull	len	enter subserve and	04977
	THE FORM PROPERTY OF A PROVINCE EDITOR PROPERTY OF A PROVINCE EDITOR PROVINCE						7 BIS-0
	EDV LPM 8200557H87:9-957h Levon's squiou nos olese 2	AL RETURN TO G	ENERATOR				(Box 4/5
1	CHOIN						



December 30, 1994

Mr. Jeff Denison
Bureau of Waste Management
Nevada State Division of Environmental Protection
333 W. Nye Lane
Capitol Complex
Carson City, NV 89710

Re: CLASS I MODIFICATIONS - CLOSURE PLAN - PART "A" REVISION

Dear Mr. Denison:

Enclosed, please find two copies of 21st Century Environmental Management Inc's revised closure plan. Upon your review and approval please have this newly submitted closure plan replace the closure plan currently in place.

Our revised Part "A" indicating our acceptance criteria is also enclosed with our payment of \$50.00 to cover both Class I Modification requests.

Should you have any questions or require any further information, please do not hesitate to contact me.

Part of the second

Patrick Enochs, CHMM/CET President/Facility Manager

Encs:

. }

Sincere

cc: Nancy Alvarez

For EPA Regional Use Only

& EPA

United States Environmental Protection Agency Washington, DC 20460

	te Re		ed ay						Н	az	ar		p		ca	itie	te on	Pe	ern	nit	ţ				٠				
MIL.	121	Γ̈́	a y	Γ'	-	1					(1	Read t	_				na/n	ing)										ř	
1. 1	nsta	llati	on's	EPA	אַ סו	lumi	er (8	lark	יאי זרי	the																			
		A. F	irst	Part	A St	ibmi	s.s.ior	1									В. Г	Part A	Åπ	end	ment	#							
Ç.	hra ta	llati	on's	EPA	ID I	чum	bor	—				D	. Sec	>>nd	ery i	D H	inybe	¢ (H &	ррВ	cabk	ø)			_			-		
N	V	D	9	8	0	8	9	5	3	3	8	N	E	V	Н	W	0	0	1										
-	Nam	. of	Faci	lity		7	,	 • • •	,,	,	· · · · ·				-	<u> </u>			,										
2	•	s	t		C	ب. اب	ــــــــــــــــــــــــــــــــــــــ	t	u	r.	У		Ė	·	V		М	N	G		I	N	C.		0	f		N	V
├			.oca	tion	(Phy	/sica	i add	इंट्य	not.	P.O.	Box	or R	oute	Hun	nber)		À	4							2			
	Street		T _	Τ	1.,	T	 	Ţ-Ţ-	Ţ		: T-	 	ī	-	т—	h .	·.	Υ		1	· -	F		1	1	'''	 -		
2	oct (5	17	N	l e	W	1	a	n	đ	s	<u> </u>	D	r	i	V	е		E	a	s.	į.t			<u></u>	<u></u>		L
٥٣	DC: {		<i></i>	,	T	Ī	T		Ţ	Γ	T	Ϋ́	T	T		T	η			· .		<u> </u>	T	ı——	7			T	
Ci,	y or	Tow			<u> </u>	<u> </u>	<u> </u>	l	<u>. </u>	<u> </u>		<u></u>	<u> </u>	L		<u> </u>		52					<u> </u>		<u> </u>	<u>L</u>	<u> </u>		
F	e e	r	n	Ti	l e	У	<u> </u>	T			<u> </u>	1	Γ	<u> </u>	1	Ī]	Sta	v V	8	Cox	Γ .	1 0	,	T		·	7	
Cou	nty C	L		oun:	ــــــــــــــــــــــــــــــــــــــ	1	1	<u> </u>	<u> </u>	<u> </u>	[1	<u> </u>	<u> </u>		<u> </u>	<u> </u>	TA	V	0	9	4	0	8	_			<u></u>	
 	i known	,	L	T	`	7]	<u> </u>	<u> </u>	· [T							1				T	γ :	
B. (and	Тур	e			ــــــــــــــــــــــــــــــــــــــ	ا د لمد	:atio	l	<u> </u>	L	1	<u> </u>	l	ا . .	l	<u></u>					D. F	adil	tv E	dste	nee	Cate	<u></u>	
r €	iler =	X(0)	1	LATI	וסטד	E (De	97065	MirxX	A zo	Seco	7¢2)	LON	GM	JDE (Dogr	ecs, λ	-	ă 5o	C/FRES	i)			nth ·				Yea	٠	
	P		Ш	3	2	3	6		3 ·	7	N	1	1	9	1	2	2	0	7	W.	20.00	1	2	2	4	1	9	8	6
				ng A	ddr	285																							
50	eet o) 	1		1	· 										7		· · · · · ·					ı <u></u>		I		
S	A		E	<u> </u>	<u></u>		<u> </u>		<u> </u>	<u>. </u>					<u> </u>	<u> </u>	<u> </u>	~		***7							<u> </u>		
	, —		<u> </u>		Ī	-	<u> </u>								"	<u>:</u>		Sta		-21p	Çọc	He T			· ·		·	<i></i> .	
٧.	Facil	ity (ont	act (Pers	on k	be o	שרטכ	cteo	l rea	ardir	10 W	usta	activ	/Kes	at f	*: [][h	<u>. </u>		44	e On	140		Mary La					e re
	ne (l												·····		·····	rat)							es) a		0 %				. J
E		0	С	h	s	Γ									P	a	t	r	i	С	k	· · · · · ·							
Job	Tith	 -		<u>. </u>	I	<u> </u>	·	٠,٠		'					Ph	one	LI Numb					d Nu	mbe] -					
F	a	С	i	1	i	t	У		М	g	r.				7	0	2	_	5	7	5	_	2	7	6	0			: .
٧L	Fæci	lity (Cont	act /	/qqv	ess ((See	instr	ucto	*****												177				90 P			
L	ont	act /	ddn	¥.∰	В.	Stre	et or	P.O.	Вох						,	• ;								\$0.05°		2000		·; .	
X																												Ť	
City	or]	Own	ì ,			T	TT		~							•		Stat	20	ZIp	Cod	a.						; ;	_
	1]	ŀ		Ì				- 1															

AUG19' 94 (FRI)	09:16 N	الا محصم AN DI			T)				186		न्ता (६	:गः। ज	ron	त वृष	ga 1,		. 0					
N V D	9 8 0 8	9 5	3	3	8					,	N	E	V	Н	W	0	-0	1		T		T
VII. Operator in	formation (See	e instruct	ilons)			jeti.					u iu				, 4.7							
Name of Opera	tor															•					10000	
2 1 s	C e	n t	u	r	У	E	N	V	1	М	N	G	Ţ	I	N	C		0	f		N	1
Street or P.O. E	lox																		-1		_ L	
2 0 9	5 Ne	w 1	. a	n	d .	s	D	r	i	v	е		E	a	s	t				T		Τ
City or Town									-1		Sta	i Lie	Z	IP C	ode	<u>!</u>			٠	<u>-l</u>	٠	
F e r r	n 1 e y	,					\prod				N	V	8	9	4	0	8	_				Τ
						- J	 _	<u> </u>	1	<u> ا</u>		-		<u> </u>	1	1	<u></u>	<u>.l</u>	1	<u> </u>	1	
Phone Number	(Annu Mada						₿.	Оры	ator	Туре	¢.	Chai				r	· · · ·	C	ate	Chan	ged	
7 0 2 -	5 7 5			6	0			[.	P		Ι,	/es		No No			_	Monti	1	Day	<u> </u>	ear
VIII. Facility Ow	1 1 1	1 1		***	\$9 6 74			2.00CM)						t design		TATE	12.026			le de la constant de
	· · · · · ·						0.00				an A											
A. Name of Faci		n t	u :	с у	T	E	N	v	T	м	N	G.		Ī	N	С		•		Ι	T-*	Т-
Street or P.O. B		11 C	u .	с У	<u> </u>	F	114		<u> </u>	IM	IN	G.		<u> </u>	IN			0	f	<u> </u>	N	V
	N e	w l	a	n d	, s	T -	D) <u> </u>	i				, To		1 _	1 1		Γ		<u> </u>		1
City or Town) II 6	W 1	[]	1 4		<u></u>	10	r		<u> </u>	e		E	a	S	t				<u> </u>		
	ıle y				7	1	Ι	Τ	1	-	Sta	~—1		P Cc			0					Υ
F e r r	1 1 е у				<u></u>	<u></u>	<u></u>				N	V	8	9	4	0	8					L.
						•	P /	Osama	or Typ	T				(0								
Phone Number					7		"			~	U. (U z en		Owi icate			<u> </u>	u Ionth		ay ∂ay		ar
7 0 2 -	5 7 5	- 2	7 0	5 0		47.49	d Scotter on]	₽	and a Benedic bloom	Y	es l	Sameans	Na	Χĺ							
IX, SIC Codes (4	-digit, in order	of signif	icance	,			024					1										
	Prim	nary											S	есоп	dary							
4 9 5 3	(Description)	Refuse	Syst	ems							(Des	copsor	ij									
	Secor	ndary											Se	≫ on	dary	******						
	(Description)	· · · · · · · · · · · · · · · · · · ·									(Des	спрвог)									
X. Other Environ	mental Permit	s (See In	structio	ns)						1.1												
A. Permit Type (Enter code)		В	. Perm	it Nun	nber						arrigh					cript				र केली केर ज		
	NT TO TE			<u> </u>					-			,	~~~~									
R	N E V	5 0 H W	 	0 4		<u> </u>	-			<u> </u>												
E	0 6 0	6 9		0 1 0 1	+	0	3	0	0	DO	יווע	(Ha	zar	ดีดม	s M	ate	ria	17 1				
E	1 1 9	4 0	0 !	5 0	P			-								e-F		•	rsl	al.		
F	6 3 6															ial						
E	1 6 1	6		1						Ai	r	•										
E	1 6 1	5 8		_	-					Ai												
) E	2 5 3	7		-	 					Ai												
		· / }	l l	1	1	1	Ι.	l	1	Ai	.r											

*	PA (.[uge	1)		<u> </u>		Sec	אוסג	lary	וס א	umb	er (E	nter	trom	peg	• 1)		
N		D	9	8	0	8	9	5	3	3	8	N	E	V	Н	W	0	0	1				_
Y	Nah	ure o	í Bus	ines	3 (P)	rovia	te a l	briet	desc	riptlo	(מכ			77			70	e de	48		非 华	等數	ģ

Treatment, storage, disposal facility of hazardous waste.

Treatment and reclamation of RCRA characteristic and listed wastes.

XII. Process Codes and Design Capacities

- A. PROCESS CODE Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a superate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.
- B. PROCESS DESIGN CAPACITY For each code entered in column A, enter the capacity of the process.
 - AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a ciceura/post-closure or enforcement action) enter the total amount of waste for that process.
 - UNIT OF MEASURE For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes
 the unit of measure used. Only the units of measure that are listed below should be used.
- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units used with the corresponding process code.

PRO(CODI		APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROC			APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
D79 D80 D81 D82 D83 D93 S01 S02 S03 S04 S05 S05	Disposal: Underground Injection Landfill Land Treatment Ocean Disposal Surface Impoundment Other Disposal Storage: Container (Barrel, Drum, Etc.) Tank Waste Pile Surface Impoundment Drip Pad Containment	Gallons; Liters; Gallons Per Day; or Liters Per Day Acra-leet or Hectare-meter Acras or Hectares Gallons Per Day r Liters Per Day Gallons or Liters Any Unit of Measure Listed Below Gallons or Liters Gallons or Cubic Meters	T87 T88 T89 T90 T91 T92 T93	Smeiting, Meiting, Or Refining Furnace Titanium Dioxide Chloride Process Oxidation Reactor Methane Reforming Furnace Pulping Liquor Recovery Furnace Combustion Device Used in The Recovery Of Sulfur Values Fron Spent Sulfuré Acid Halogen Acid Furnace Other Industrial Furnaces Listed in	'	Gailons Per Day; Liters Per Day; Pounds Per Hour, Short Tons Per Hour, Kilograms Per Hour; Matric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Blu's Per Hour
599	Building-Storage Other Storage Treatment:	Any Unit of Measure Listed Below	194	40 CFR §260.10 Containment Building-Treatment	•	Cubic Yards or Cubic Meters
T01 T02 T03 T04	Tank Tank Surface Impoundment Incinerator Other Treatment	Gallons Per Day or Liters Per Day Gallons Per Day or Liters Per Day Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour: Liters Per Hour; or Btu's Per Hour Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kliograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per	X01 X02	Miscellaneous (Subou Open Burning/Open Detonation Mechanical Processin Thermal Unit		Any Unit of Measure Listed Below Short Tons Per Hour, Metric Tons Per Hour, Short Tons Per Day, Metric Tons Per Day, Pounds Per Hour, or Kilograms Per Hour Gallons Per Day, Liters Per Day, Pounds Per Hour, Short
T80 T81 T82 T83 T84 T85	Boiler Cement Kiln Lime Kiln Aggregate Kiln Phosphate Kiln Coke Oven Blast Furnace	Btu's Per Hour Gallons or Liters Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour	X04 X99	Geologic Repository Other Subpart X		Tons Per Hour; Kilograms Pe Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Biu's Per Hour Cubic Yards or Cubic Meters Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	E 	Short Tons Per Ho Metric Tons Per Ho Short Tons Per Da Metric Tons Per Da Pounds Per Hour Kilograms Per Hou	our yN ¶yS	Cubic Yards	

FPAID	Number (Ent	er from page 1)		Se	condary II	Num	ber /E	nter fro	מת מוכ	10 1)	
	D 9 8			N			· · · · ·	0	1		<u> </u>
XII.Proc	ess Codes an	d Design Capabilities (Continued)	134 544	y (e/a)			at and	i en les	a seralis	Aller	
E		COMPLETING ITEM XII (Shown in line number X-1	l below); A l	facility	/ haa a stor	age ta	nk, wh	ich can	hold 5	33.788	
Una	A. Process	B. PROCESS DESIGN CAPA	CITY		····	C. Pro		<u> </u>	For O		
Number	Code (From list above)	1. Amount (Specify)			2. Unit Of Measura (Enter code)	Num Of L			Use (⊃nIy 	
X 1	5 0 2		3 , 7 8		G	0 0) 1				
7	s! 0! 1	2 4 2, 0 0	0.0	0 0	G	0 4	9				
2	s! 0 2	268,79	3 0	0 0	G	0 0	5				
3	T: 0 1	8 3, 0 0	0,0	0 0	U	0 0	7				
4	! ;										
. 5	; į										
6	įį		•				-				
7											
8			•								
. 9			•								
1 0	<u> </u>										
1 1					·						
1 2											
1 ' 3											.
2D	ove. Number m	d to list more than 13 process codes, attach an ac as lines sequentially, taking into account any lines	iditional she that will be u	esi(s) ised fi	with the in or "other" p	formati rocess	ion in t 14. (14.	the sam ., D\$9, \$	ie form. 199, TO	at as Lend	
	9) <i>in Item XIII.</i> her Processes	(Follow Instructions from item XII for D99, S9:	9 Thisand	Y00 c	P00000 00	doel	10.02	e (in ver)	je grak	A Serie	
Line	A. Process	B. PROCESS DESIGN CAPACITY	J, 10-1 B/10 /	1	rocess	Je3)		o-dette	ur Of Pi	i ski	
Number (Ener # in	Code (From list above)	1. Amount (Specky)	2. Unit Of	7	otal mber		<i>D. D</i> 6.	acu (p ti ti	11 0, 7,		•
\$49 4/XII)		(4-2)	Measura (Enter code)		Units						
X 1 1	T a 4						In-:	atu Via	dicatio	ın.	
1			<u> </u>	<u> </u>							
1 - 1			1 7	<u> </u>			·				
2				Ĺ.,							
3	1										
			<u> </u>								
4											
!l	!		<u> </u>								
ī.											
				~						·	

				11										<u></u>											
1	EPA	(.	. Nu	nbe	(En	tor fi	ן וווסי	De 9 8	1)		-				leco	nder	סו ע	Num	ber (Enti	er fro	m pi	ige 1)	
1	1	v	D	9	8	0	8	9	5	3	3	8		N	E	V	Н	W	0	0	1				
	I V D 9 8 0 8 9 5 (IV. Description of Hazardous Waster												a telephone in the sample	£/g					djire	e e					N.

- A. EPAHAZARDOUS WASTENUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C UNIT OF MEASURE For each quantity antered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	[METRIC UNIT OF MEASURE	CODE
POUNDS	P	:	KILOGRAMS	к
TONS	Τ	1	METRIC TONS	М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contemhant entered in column A, select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first lwo as described above.
- 2. Enter "000" in the extreme right box of item XIV-D(1).
- 3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).
- PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shell be described on the form as follows:

- Selections of the EPA Hazardous Wasts Numbers and enter it in column A. On the same line complete columns
 B, C and D by estimating the total annual quantity of the wasts and describing all the processes to be used to treat,
 store, and/or dispose of the wasts.
- in column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste.
 in column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a fanofill.

					CESS						
Line Number	1	ANNUAL MEASURE QUANTITY OF (Enter WASTE code)		(1) PROCESS CODES (Enter code)							(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
Χİτ	K 0 5 4	900 p		Τ σ	3	D	8	0			
X 2	D; 0 0 2	400 P		7 0	3	D	8	٥			
X 3	D 0 0 1	100 P	• • •	7 0	3	D	8	0	-		
X 4	D 0 0 2										Included With Above

 EPA 1.D. Number (Enter from page 1)
 Secondary ID Number (Enter from page 1)

 N V D 9 8 0 8 9 5 3 3 8
 N E V H W 0 0 1

X	XIV. Description of Hazardous Wastes (Continued)											
	٠,		A. EPA HAZARDOUS		B. ESTMATED C. UNIT OF ANNUAL MEASURE		D. PROCESSES					
	Una umba] !	WAS	TE N	0 ,	QUANTITY OF WASTE		(1) PROC	ESS COL	ES (Enter code)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
	. 1	K	0	6	2	1000	T	т23	т 3	1	T 4 0	
	¦ 2	D	0	0	1	100	T	т 2 4	т 2	3	T 3 1	
	ļ 3	D	0	0	2	50000	Т	т 3 1	т2	3	T 2 7	·
	4	D	0	0	3	100	Т	T 2 2	Т2	7	T 2 5	
	· 5	D	0	0	4	100	Т	т 2,3	т 2	9	T 3!1	
	į 6	D	0	0	6	2000	T	T 2:3	Т2	9	T 3 1	
_	7	D	0	0	7	5000	Т	T 2,3	Т2	9	T 2 4	
	. 8	D	. 0	0	8	1000	T	Ţ 2¦3	Т2	9	T 3 1	
	وا	D	0	0	9	1	T	T 2 3	т2	9	T 3 1	
1	, 0	D	0	1	0	10	Т	T 2,3	т2	9	T 3 1	
1	1	D	0	1	1	1000	T	Τ 2;3	т2	9	T 3 1	
1	2	F	. 0	0	6	24000	T	T 5 0	т 1	8	T 3 1	Drying Thermal
1	ļ 3	F	0	0	7	2100	T	Ţ 2¦2	Т2	3.	T 3 1	
1	4	F	0	0	8	100	T	т 2'2	т 2	¦ 3	T 3 1	
1	5	F	0	0	9	100	T	т22	Т2	3	T 3 1	
1	6	F	0	1	1	200	T	т22	т 2	3	T 3 1	
1	7	F	0	1	2	200	T	т22	т2	3	T 3 1	
1	8	F	0	1	9	200	T	т 2 3	т3	1	т 29	
1	i 9	<u> </u>		į								
	0						·					
2	1							1				
	2				\bot							
2	3				_			.				
2	4											
2	. 5							` 				
2	6			!				1				
2	7		1									
2	8							1				
2	9			\perp	_							
3	0			_	\perp							
3	1		_									
3	2	•			_						į	
3	3				\bot					I		

EPA I.D. Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
N V D 9 8 0 8 9 5 3 3 8	N E V H W 0 0 1
XV, Map	
Attach to this application a topographic map, or other equivalent map oundaries. The map must show the outline of the facility, the loca structures, each of its hazardous waste treatment, storage, or disposinclude all springs, rivers and other surface water bodies in this ma	tion of each of its existing and proposed inteke and discharge osal facilities, and each well where it injects fluids underground.
XVI. Facility Drawing	
All existing facilities must include a scale drawing of the facility (se	e instructions for more detail).
XVII. Photographs	
All existing facilities must include photographs (aerial or ground-le treatment and disposal areas; and sites of future storage, treatmen	vel) that clearly delineate all existing structures; existing storage, t or disposal areas (see instructions for more detail).
XVIII. Certification(s)	antis provinci programo esta programa de la programa
I certify under penalty of law that this document and all attack accordance with a system designed to assure that qualified personaged on my inquiry of the person or persons who manage the the information, the information submitted is, to the best of my kind that there are significant penalties for submitting false informationage violations.	onnel properly gather and evaluate the information submitted. I system, or those persons directly responsible for gathering nowledge and belief, true, accurate, and complete. I am aware ation, including the possibility of fine and imprisonment for
Owner Signature	Date Signed 12/30/94
Name and Official Title (Type or print) Patrick Enochs, President	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature	Oate Signed
Name and Official Title (Type or ornt)	
Mattie and Oncias (1984 or active)	
Operator Signature	Date Signed
	Date Signed
Operator Signature	Date Signed
Operator Signature Name and Official Title (Type or print)	Date Signed
Operator Signature Name and Official Title (Type or print)	Date Signed
Operator Signature Name and Official Title (Type or print)	Date Signed
Operator Signature Name and Official Title (Type or print)	Date Signed
Operator Signature Name and Official Title (Type or print)	Cate Signed
Operator Signature Name and Official Title (Type or print)	Cate Signed
Operator Signature Name and Official Title (Type or print)	Cate Signed
Operator Signature Name and Official Title (Type or print)	Cate Signed

PART III IN CONTAINERS

A. WASTE IDENTIFICATION

The Permittee may store the following wastes in containers at the facility, subject to the terms of this permit.

EPA Hazardous Waste Code	<u>Description</u>
F006	Electroplating wastewater treatment sludge
F007	Spent Cyanide plating bath solutions
F008	Cyanide plating bath residues
F009	Spent Cyanide stripping/cleaning bath solu- tions
F011	Spent cyanide solutions from salt bath pot cleaning
F012	Cyanide quenching wastewater treatment sludges
F019	Wastewater treatment sludges from chemical conversion coating of aluminum
K062	Spent pickle liquor generated by steel finishing operations of facilities within iron and steel industry (SIC Codes 331 and 332).
D001	Oxidizers only.
D002	Corrosive characteristics wastes
D003	Reactive characteristics wastes
D004	Arsenic - EP Toxic
D006	Cadmium - EP Toxic
D007	Chromium - EP Toxic
D008	Lead - EP Toxic
D009	Mercury - EP Toxic
D010	Selenium - EP Toxic
D011	Silver - EP Toxic

PART IV - STORAGE IN TANKS

A. WASTE IDENTIFICATION

The Permittee may store the following hazardous wastes in tanks, subject the terms of this permit:

- a. Tank No(s). (Cyanide) EPA Hazardous Waste No.

 S-1 S-2 (Cyanide Waste Water) F007, F008, F009, F011, F012,

 S-12 S-13 (Cyanide-metal bearing) D001, D002, D003, D004, D006,

 D007, D008, D009, D010, D011

 F006, F019, K062.
- b. Tank No(s). (Alkaline Waste Water) EPA Hazardous Waste No.

 S-3 thru S-6 (Alkaline Waste Water) F007, F008, F009, F011, F012,

 S-14 S-15 (Alkaline-metal bearing) D001, D002, D003, D004, D006,

D007, D008, D009, D010, D011

F006; F019, K062.

C. Tank No(s). (Acid) EPA Hazardous Waste No.

S-7 thru S-10 (Acid Waste Water) F007. F008. F009. F011. F012.

S-16 thru S-28 (Acid-metal bearing) D001. D002. D003. D004. D006.

D007. D008. D009. D010. D011

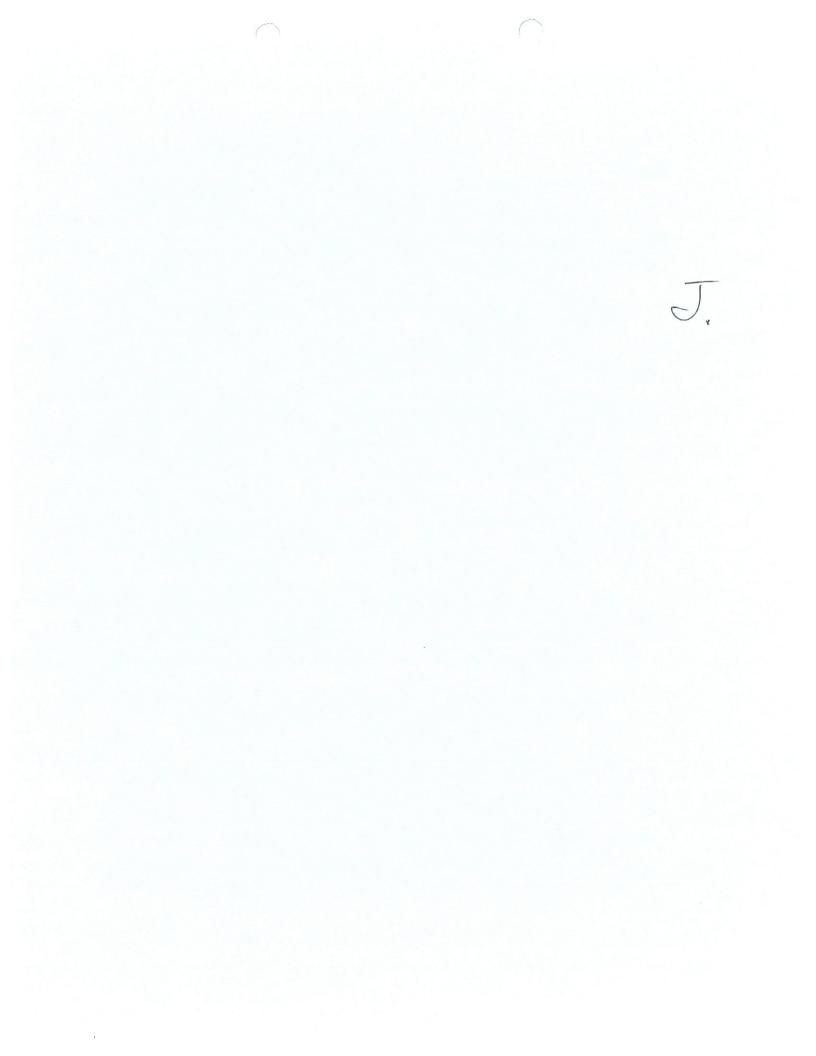
F006, F019, K062.

d. Tank No(s). EPA Hazardous Waste No.

<u>S-11</u> (Delivery Spillage) F007, F008, F009, F011, F012,

D001, D002, D003, D004, D006,

D007, D008, D009, D010, D011





HAZARDOUS MATERIALS SPILL FOLLOW-UP REPORT

OEM Report Number: H94-1104-E

Date of report: 11-19-94

Company Yame:

FTICAV

Address:

2005 Newlands Drive, East

City/State/Zip:

Terniey, Nevada 89408

Date/Time of the event:11/4/94 5:45pm

Event Location: Same as above

Township: .20N Range: .25E..MDB&M Section: 6 County: Lyon

Material Released: Caustic solution containing spanide. Amount: 10 galtons

Description of the Incident: At approximately 5:45 pm on November 4, 1994 approximately 10 gallons of a caustic solution that contained 0.1 percent oganide poured onto the driveway at the south end of the ETICAM facility, A small amount of the liquid can off the driveway to the adjacent soil.

The solution was in an open top style poly-drum. The drum was lidded with a sicel ring securely fastened.

The drum was being transported from the East loading dock to the truck bas for sampling of the material in the doom. During transfer, the forkilly encountered bumps on the driveway, thereby jarring the drum free of the device attached to the forklift. The free liquid portion of the drum went onto the driveway. A small amount of the 10 gallons went to the adjacent Soin

elego-up Activities: Absorbent was readily available and was spread immediately to contain and absorb the solution.

The woll from the diel area affected was completely shoveled into containers slong with the absorbent. The driveway was mopped with a mild KOK solution and then mooped several times with water. Analytical results for the samples of the final mor rinse and the final soil indicated total cyanida at less than one part per million. The clean-up activities were completed by 8:10 pm on 11/4/94.

Corrective action. The Navada Division of Preventative Safety will be contacted so that additional certified forklift training can take place at the Fernier facility wish, berming the driveway is being assessed and evaluated for additional containment.

COMPLAINT/SPILL REPORT FORM STATE OF NEVADA DIV. OF ENVIRONMENTAL PROTECTION

DE YOU WANT TO REMAIN ANONYMOUS? YES NO V. REPORTING PERSON/AGENCY: Middle Lawler (4) 21/575-27/60 CITY: Failey STATE NV 21P 8408 CONTACT PERSON: More ADDRESS: PHONE () CITY: STATE ZIP COWNER/OPERATOR OF FACILITY: More CITY: STATE ZIP CONNER/OPERATOR OF FACILITY: More CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility of above address: CITY: COUNTY: Lyon CITY: COUNTY: Lyon CITY: RR MILE: TRY MARKER: SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drun slipped off firk lift during drun FREMEDIAL ACTION TAKEN: Limited 5000 fb Soil .	DATE INCIDENT REPORTED: 11/10	194 TIME: 1745 194 TIME: 1630
ADDRESS: 2095 E. Navial of Mr. CITY: Fearley STATE NV ZIP 8408 CONTACT PERSON: Above ADDRESS: PHONE () CITY: STATE ZIP OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side failing of above address: CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: IMPACT/DISTANCE TO: SURFACE WATER SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) ~ (0000 ppm QUANTITY FOUND: 10 Sat CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum trusfung CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum trusfung CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum EMERCIAL ACTION TAKEN: Remend 5000 lbs of Sail . 452 CLEAN UP REFERRAL: BWM Jeff Dennisan CCHD WCHD EMPORCEMENT REFERRAL: BWM Jeff Dennisan CCHD WCHD EMPORCEMENT REFERRAL: BLM USFS OTHER COMMENTS:	The state of the s	NO <u>/</u>
CONTACT PERSON: Above ADDRESS: PHONE () CITY: STATE ZIP OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility of above address CITY: COUNTY: Lyon CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: IMPACT/DISTANCE TO: SURFACE NATER SUPPLY WELLS CONCENTRATION: (ppm, ppb, %) ~ 1000 ppm QUANTITY FOUND: 10 Sal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum fransfung. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum FREMEDIAL ACTION TAKEN: Connected 5000 lbs of Sail. + 52 CLEAN UP REFERRAL: BWM / Jeff Dennison CCHD WCHD EMFORCEMENT REFERRAL: BWM / Jeff Dennison CCHD WCHD COMMENTS:	REPORTING PERSON/AGENCY: Mickey	awler (Eticam
CITY: FRANCY CONTACT PERSON: Above ADDRESS: PHONE () CITY: STATE ZIP OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility of above address CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: TRYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) ~ (oto ppm QUANTITY FOUND: 10 Sal. CAUSE OF COMPLAINT/SPILL: Drun Slipped off firk lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUMY** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun **TATASTUM** **T	ADDRESS: 2095 E. Newland D	PHONE (70Z) 575-2760
CONTACT PERSON: Above ADDRESS: PHONE () CITY: STATE ZIP OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility at above address CITY: COUNTY: Lyon CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: IMPACT/DISTANCE TO: SURFACE WATER SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) ~ 10000 ppm QUANTITY FOUND: 10 Sal CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum FREMEDIAL ACTION TAKEN: Lineared 50000 lbn of Sail . 450 CLEAN UP REFERRAL: BWM Jett Drum Son CCHD WCHD ENFORCEMENT REFERRAL: BWM Jett Drum Son CCHD WCHD COMMENTS: COMMENTS:	CITY: temley	STATE NV ZIP 89408
ADDRESS:		
CITY: COUNTER/OPERATOR OF FACILITY: Abore ADDRESS: CITY: CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: CUT Side facility of above address CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: TYPE OF MATERIAL DISCOVERED: CONCENTRATION: (ppm, ppb, %) ~ (oto ppm QUANTITY FOUND: / C gal CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun frankfung Sampled Sou for CN REMEDIAL ACTION TAKEN: CLEAN UP REFERRAL: BWM / Jeff Dennison CCHD WCHD COMMENTS: COMMENTS:		PHONE ()
OWNER/OPERATOR OF FACILITY: Above ADDRESS: PHONE () CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility of above address CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: THE SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from from grant for the form of the gal solution of the gal solution. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from from grant for the gal solution of the gal solution. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from from grant for the gal solution of the gal solution. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from grant from the gal solution of the gal solution. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from grant from the gal solution of the gal solution of the gal solution. CAUSE OF COMPLAINT/SPILL: Drum Slipped off firk lift during drum from gal solution of the gal solution o		
ADDRESS: CITY: STATE ZIP LOCATION/ADDRESS OF COMPLAINT/SPILL: COUTY: COUNTY: COUNTY: LYON T/R/SEC: HHY MARKER: TYPE OF MATERIAL DISCOVERED: CONCENTRATION: (ppm, ppb, %) — GOOD ppm QUANTITY FOUND: CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum frankfung. Sampled Sin for the REMEDIAL ACTION TAKEN: REMEDIAL ACTION TAKEN: REMEDIAL STATE CLEAN UP REFERRAL: BWM Jeff Denne Son CCHD WCHD WCHD COMMENTS: COMMENTS:		197
CITY: LOCATION/ADDRESS OF COMPLAINT/SPILL: CUST SIDE SIDE COUNTY: COUNTY: LYON T/R/SEC: HWY MARKER: SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CONCENTRATION: (ppm, ppb, %) ~ (oto ppm QUANTITY FOUND: /0 gal. CAUSE OF COMPLAINT/SPILL: SAmpled Son for the lift during down FREMEDIAL ACTION TAKEN: CLEAN UP REFERRAL: BWM / Jeff Dennism CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:		
LOCATION/ADDRESS OF COMPLAINT/SPILL: Gut Side facility of above address CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: RR MILE: IMPACT/DISTANCE TO: SURFACE WATER SUPPLY WELLS CONCENTRATION: (ppm, ppb, %) ~ (oto ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum fransferry Sampled Soil for LN + REMEDIAL ACTION TAKEN: Lemend 5000 lbs of Soil. + 5000 CLEAN UP REFERRAL: BWM / Jeth Dennison CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:		
CITY: COUNTY: Lyon T/R/SEC: HWY MARKER: SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CONCENTRATION: (ppm, ppb, *) ~ (000 ppm QUANTITY FOUND: CAUSE OF COMPLAINT/SPILL: Drun Slipped off fork lift during drun fransfung. Sampled Sin for the the REMEDIAL ACTION TAKEN: CLEAN UP REFERRAL: BWM Jeft Dennish CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:		STATE ZIP
T/R/SEC: HWY MARKER: IMPACT/DISTANCE TO: SURFACE WATER SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) ~ 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum transfuring. Sampled Sout for the transfuring drum Sampled Sout for the transfuring drum Sampled Sout for the transfuring drum CLEAN UP REFERRAL: BWM Jeff Dennism CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:	LOCATION/ADDRESS OF COMPLAINT/SPILL: _	Out side failing at above adds
T/R/SEC: HWY MARKER: IMPACT/DISTANCE TO: SURFACE WATER SUPPLY WELLS TYPE OF MATERIAL DISCOVERED: CN Solution CONCENTRATION: (ppm, ppb, %) ~ 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum transfuring. Sampled Sout for the transfuring drum Sampled Sout for the transfuring drum Sampled Sout for the transfuring drum CLEAN UP REFERRAL: BWM Jeff Dennism CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:	CTTV.	
IMPACT/DISTANCE TO: SURFACE WATER	T/P/SEC.	COUNTY: Lyon
CONCENTRATION: (ppm, ppb, %) ~ 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum fransfering: Sampled Soil for EN + REMEDIAL ACTION TAKEN: Remed 5000 lbs of Soil. + 50 CLEAN UP REFERRAL: BWM / Jeff Dennison CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:		HWI MARKER: RR MILE:
CONCENTRATION: (ppm, ppb, %) ~ 1000 ppm QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slipped off fork lift during drum fransfirming. Sampled Soil for EN + REMEDIAL ACTION TAKEN: Remed 5000 lbs of Soil. + 50 CLEAN UP REFERRAL: BWM / Jeff Dennison CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:	THE STATE OF	SUPPLY WELLS
REMEDIAL ACTION TAKEN: Remarked 5000 lbs of 5001. + 5000 lbs of 5001. + 5000 lbs of 5000 l	CONCENTRATION: (ppm, ppb, %) ~ (000 p	pm
CLEAN UP REFERRAL: BWM / Jeth Dennison CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:	QUANTITY FOUND: 10 gal.	
CLEAN UP REFERRAL: BWM Jeth Dennison CCHD WCHD ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS OTHER COMMENTS:	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slid	
CLEAN UP REFERRAL: BWM Jeth Dennism	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip transferry.	sped off fork lift during down
AGENCIES NOTIFIED: BLM USFS OTHER	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfing. Sampled	sped off fork lift during down
AGENCIES NOTIFIED: BLM USFS OTHER	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfing. Sampled	sped off fork lift during down
AGENCIES NOTIFIED: BLM USFS OTHER	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip frankfung. Sampled REMEDIAL ACTION TAKEN: Removed	sped off fork lift during down Soir for EN + 5000 lbs of Soil. + 50
COMMENTS:	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfung. Sampled REMEDIAL ACTION TAKEN: Removed	sped off fork lift during down Soir for LN + 5000 lbs of Soil. + 50
	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip transferming. Sampled REMEDIAL ACTION TAKEN: Removed CLEAN UP REFERRAL: BWM / Jeth D	sped off fork lift during down Soir for LN + 5000 lbs of Soil. + 50
	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip Fransfirming. Sampled REMEDIAL ACTION TAKEN: Removed CLEAN UP REFERRAL: BWM / Jeth D ENFORCEMENT REFERRAL:	sped off fork lift during down Soil for EN + 5000 160 0 Soil . + 50 ennison con word
(FYI ONLY) CC: REPORT TAKEN BY: Sym	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfung. Sampled REMEDIAL ACTION TAKEN: Remed CLEAN UP REFERRAL: BWM / Jeth D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS	soil for LN + 5000 lbs of Soil. + 5000 lbs of Soil. + 5000 WCHD
(FYI ONLY) CC: REPORT TAKEN BY:	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip Frankfung. Sampled REMEDIAL ACTION TAKEN: Remed CLEAN UP REFERRAL: BWM / Jeth D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS	soil for LN + 5000 lbs of Soil. + 5000 lbs of Soil. + 5000 with a common other
REPORT TAKEN BY: Sym	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip Frankfung. Sampled REMEDIAL ACTION TAKEN: Remed CLEAN UP REFERRAL: BWM / Jeth D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS	soil for LN + 5000 lbs of Soil. + 5000 lbs of Soil. + 5000 with a common other
	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfung. Sampled REMEDIAL ACTION TAKEN: Removed CLEAN UP REFERRAL: BWM / Jeff D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS COMMENTS:	Soil for LN + 5000 lbs of Soil. + 50 ennison CCHD WCHD
	QUANTITY FOUND: 10 gal. CAUSE OF COMPLAINT/SPILL: Drum Slip fransfirming. Sampled REMEDIAL ACTION TAKEN: Removed CLEAN UP REFERRAL: BWM / Jeff D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS COMMENTS:	soil for EN + 5000 lbs of Soil. + 50 ennison CCHD WCHD
	CAUSE OF COMPLAINT/SPILL: Drum Slip fransfring. Sampled REMEDIAL ACTION TAKEN: Removed CLEAN UP REFERRAL: BWM / Jeff D ENFORCEMENT REFERRAL: AGENCIES NOTIFIED: BLM USFS COMMENTS:	soil for EN + 5000 lbs of Soil. + 5000 lbs of Soil. + 5000 with a contract of the contract of

COMPLAINT/SPILL REPORT FORM

DATE OF INCIDENT:	11/04/94	TIME: # 1745
DATE INCIDENT REPORTED:		TIME: OSC
DEN # 494/1045	DO YOU WANT TO REHAIN	ANONYMOUS? YESNO
REPORTING PERSON/AGENCY:	GOODFELL AND	86h.
		PHONE () 687-4240
		STATE ZIP
CONTACT PERSON: A	NO CHS , ETICA	m FAC. MER.
ADDRESS:		PEONE () <u>575-2766</u>
CITY:		STATE SIP
OWNER/OPERATOR OF FACILITY:	ETICAM	
ADDRESS:	•	PHONE ()
CITY: FEENLEY		PHONE ()
LOCATION OF COMPLAINT/SPILL:	ABOVE FACE	
ADDRESS:		
		COUNTY:
T/R/SEC:		
TYPE OF MATERIAL DISCOVERED: CONCENTRATION: (ppm, ppb, %)	RCRA # FOOL	SUPPLY WELLS
QUANTITY FOUND: 10 Gp		
	MAJERIALS SPILL	OF OUTSIDE CONTAIN-
REMEDIAL ACTION TAKEN:	anios wid to	CLEAN UP.
CLEAN UP REFERRAL:		CCHD WCHD
ENFORCEMENT REFERRAL: DWI	M. N. ALVAREZ!	J. Devised
AGENCIES NOTIFIED: BLM	· · · · · · · · · · · · · · · · · · ·	ER
		\cdot
	KERGY TO NOTE	
eft voice mail repend P. Enochs called M		
(FYI ONLY) CC:		
REPORT TAKEN BY: AND	NAO.	
REPORT RECEIVED BY SUPERFUND	PROGRAM: INITIALS	Revised 04/15/94

NL DA OFFICE OF EMERGENCY MANAG INT HAZ DOUS MATERIALS REPORT

EM I	Report No.: H - <u>941104</u>		OEM Chief Review: Time Used:	5
	11-14 1994		Overtime Claimed:	
	Summary: ETICAN ET	n/cy haz wass	4 / ignid x FO	06-F007-FE
	F009, 5007, D008. 9pl	ed in fransit	outside secon	Dary.
	containment. Clean	up in progre	55	
		/ / /		•
}	Follow-up Report: 🔀 Yes 🗆 No		4	
3.	Report received at 1927 (hours) by	Good fellow	from fat En	chs
		call-back t		
1.	Release type: Oil Chemical		☐ Other:	
	Location of release: Feenley			
	Township: Range:	Section:	County: Lyo	
	Material(s) released: RCRA FOOL		_ V	
	Date and Time of loss:			
	Released to: ☐ Air ☐ Water ► Earth		₹	s 🗆 Liquid ै Soli
	Amount of loss: 10 gals		<i>F</i>	
	Characteristics: See RCRA		AAT near by: Yes	
	Precautions: Cyanals P	<i>l</i> .		
	Precautions:	Number of people: Everyted	Injured	Dead
	, ·			
	Location injuries occurred:		ured/Dead taken to:	
	Site data: Waterway(s) or Drainage System	n(s) (2)n		
	Structures damaged: None None		at	
	Weather: Dry - Winky	Тетга	in: Har	
5.		otify OEM? 😕 Yes 🗆 No		ortation incidents only
	Company: <u>ETI CAM</u>			
	Contact: Pat Enoch 5	Title: Facility.	Manager Telephone: (2)	12) 515-27
	Contact: Pat Enoch 5 Title III Facility No.:	ICC No.:	USDOT No.:	
	Truck or Railcar No.:			

JUI 20 94

OEM Report Number: H940617-A

Date of report: June 17,1994

Company Name:

ETICAM

Address:

2095 Newlands Drive, East

City/State/Zip:

Fernley, Nevada 89408

Date/Time of the release: No release, Instrument alarm only

Release Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8

County: Lyon

Material Released: No release

Amount: None

Description of the Incident: 6-17-94

At 12:50 am on the HVAC HCN gas monitor alarm sounded in the ETICAM facility. All personnel evacuated the facility at that time.

The designated emergency coordinator arrived at 1:00 am and began to investigate the alarm condition. After further air monitoring and review of plant operations, it was concluded that there was no evolution or release of HCN.

The plant was called clear for normal operations at 1:20 am by the emergency coordinator.

Clean-up Activities:

No clean up activities were required as a result of the alarm condition.

Corrective Action:

The HVAC gas monitor will be corrected, repaired or replaced as necessary.

Certifying Official/Title (print or type): Bob Sherwood/Safety

Signed:

Date:

Send report to: Nevada Division of Emergency Management

Capitol Complex

OEM Report Number: H940525E

Date of report:

Company Name:

ETICAM

Address:

2095 Newlands Drive, East

City/State/Zip:

Fernley, Nevada 89408

Date/Time of the release: May 25, 1994 16:10 Hours

Release Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8

County: Lyon

Material Released: NOx

Amount: < 1 lb.

Description of the Incident:

On Wednesday, t 16:10 hours, Nox gas was released inside the ETICAM facility in the detoxification department. The gas was detected by the HVAC HCN continuous gas monitor, which tripped the facility alarms. At that time all personnel evacuated the building.

The NOx was created as a result of a batch treatment process in a treatment reactor. The formation of the gas began to overtake the air flow settings of the primary reactor air scrubber. The $NO_{\mathbf{x}}$ then began to form a small cloud in the detoxification room. At that time the treatment process for that reactor was stopped.

At 16:20 hours, the facility was monitored for NO_x . There were no indications of the gas in the building except for 1-2 ppm in the detoxification room. At 16:30 hours, the cloud of NO_x had dissipated in the detoxification room and the facility was called clear for re-entry.

Clean-up Activities:

No clean was necessary for this incident.

Corrective Action:

Treatment reagents for this particular batch of waste require a slow rate of addition to allow full reactor ventilation and proper scrubbing of the gas which is unavoidably a product of the waste treatment.

There were no injuries or exposures resulting from this incident.

Certifying Official/Title (print) or type):

Bob Sherwood/Safety

Date:

Send report to:

Nevada Division of Emergency Management

Capitol Complex

INCIDENT FOLLOW UP

137 16 94

OEM Report Number: 1940507B Date of report: May 9, 1994

Company Name:

ETICAM

Address:

2095 Newlands Drive, East

City/State/Zip:

Fernley, Nevada 89408

Date/Time of incident: 04:05 hours, May 7, 1994

Release Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8

County: Lyon

Material Released: None

Amount: None

Description of the Incident:

5-7-94 At 04:05 hours on Saturday the Fire alarm sounded in the ETICAM facility. All personnel on shift evacuated the building at that time.

After accounting for all personnel and awaiting the arrival of the Fernley Vol. Fire Dept., observations were made to determine the existence of a fire. No fire was found in the facility. It was determined that the smoke detector in the main HVAC ducting tripped the alarm, possibly due to exhaust emissions from the facility boiler system which were carried by wind direction into the HVAC unit.

The facility was called clear for re-entry by the emergency coordinator at 05:45 hours on May 7, 1994. The alarm system was reset and determined properly operational.

There were no injuries or exposures as a result of this incident.

Clean-up Activities:

No clean up was required.

Certifying Official/Title (print or type): Bob Sherwood / Safety

Send report to:

Nevada Division of Emergency Management

Capitol Complex

OEM Report Number: H940324B Date of report: March 28,1994

Company Name:

ETICAM

Address:

2095 Newlands Drive, East

City/State/Zip:

Fernley, Nevada 89408

Date/Time of the incident: March 24, 1994, 09:00 hours

Incident Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8 County: Lyon

Hazradous Material Released: Hydrogen Cyanide Amount: < 0.1 lbs.

Description of the Incident:

At 09:00 on 1991 hydrogen cyanide gas was detected in the cyanide storage berm at ETICAM by a continuous gas monitor. The monitor detected and read out a high value of 4.7 ppm (OSHA STEL) thereby sounding the facility alarms.

The incident resulted from an operator cleaning up equipment after transferring cyanide waste from storage tank S-1 to S-2. As the operator was removing the transfer hose from the tank, approximately one half gallon of liquid waste residue spilled out of the hose on to the berm floor. The gas monitor then detected the HCN from the residue.

After evacuation of the building, two employees with appropriate PPE entered the storage berm and monitored the air in the berm. HCN was then detected at not more than 1 ppm in the berm. The cyanide material was then neutralized so it could be properly cleaned up.

The facility was called clear for work activities at 09:30 hours March 24, 1994 by the Emergency Coordinator.

Clean-up Activities:

The cyanide storage berm floor was cleaned up.

Corrective Action:

Corrective action requires that transfer hoses are flushed with water or completely drained before disconnecting or removing them from tanks.

There were no injuries or exposures resulting from this incident.

Certifying Official/Title (print or type):

Bob Sherwood

Send report to: Nevada Division of Emergency Management Capitol Complex 2525 South Carson Street Carson City, Nevada 89710

COMPLAINT/SPILL REPORT FORM

Date of incident: 3/24/44	Time:
Date incident reported: 4/12/94	mi- 92h.
Reporting person/agency: Alialat anonym	us
Address:	
Phone:	
Contact person: <u>Rhan ymous</u>	
Phone:	
Owner/Operator of facility: Fram	
Address: 1095 Newlands	Dr East
Phone: Fernley NV 3	9402
Location of complaint/spill: Eticam Fer	nloy NV
Distance to: surface water	ly wells
Type of Material found: <u>CVanide</u> Spill facer	n Dino
SUMP That had held in it. Frame	1 humanda acci
concentrations: $\frac{16500176019}{100017}$	na alarenation
Quantity found: $try - hllrs$	TICHER + AND DO
Cause of complaint/spill: LUNNErseed 13 hours	of Marine and and
- Plant of Waitled to Know itwing	eported verbally
Remedial action taken. Mail Concern - 1	AVIC OOCH UC
dest blowing outside From 1	Oading Cludes
into hopperd outside. (ongoing)	- 50 CM (1) STOUTE (5)
Agencies notified: Backbauce have Da	P out of cocker
- + dust emissions emitted Congrin	10)
Report referred to: Bureau	9)
Staff person	
Report taken by: Nancy Alvarez BWM	
Comments:	
(For information only) cc:	
Report received by Superfund program: Initial	g.
i i En - 9 InitCIQI	· · ·

	H ARDOUS MATERIALS F)RT
NDLN	1 Report No.: H - 1/1/0324B	NDEM Chief Review:
Date:	May 24, 1994	Time Used: . 5 Overtime Claimed:
1.	Summary: 2TIC AM Feinley had regides	from transfer hose
	spill within the enclisure berm.	Material was HCAL
	and it triggered glasm. Congress to	extrel area with
	neutralizer solution, problem is reso	IveD.
2.	Follow-up Report: Yes 🗆 No	
3.	Report received at 1 [// (hours) by Graffollow)	from Bold Sherward
	of ST/CHIN call-back telep	hone number 575-2760
4.	Release type: Oil M Chemical D Diamedial Do	
	Location of release: STICIAN Plant Feculos Township:	F(1- ·
	Township: Range: Section:	County: Lyon
,	Material(s) released: // C /	
	Date and Time of loss: Means of I.D.	: Harn System Detroto
	Released to: Air Water Earth Other:	Present state: Gas
	Amount of loss: A/A Amount present: A/A	Health Hazard: N Vac (
	Characteristics: Gasacus HAZMAT Other HAZMAT	near by: 10 - plant
	Precautions:	1141-1
	Population endangered: Yes No Number of people: Evacuated	Injured Dead
		Dead taken to:
	Site data: Waterway(s) or Drainage System(s)	
	Structures damaged: 😾 None	
	Weather: Dry & Clear Terrain:	
5.	Spiller Information: Did the Spiller notify NDEM? ✓ Yes ☐ No (If r	
	Company: FT/ (1AM)	
	Contact: File Sherwerf Title: Safety of	Te & Telephone: (782) 575-7-76
	Fitle III Facility No ICC No.:	USDOT No.:
	Jry Lor Range Name	
	Perr 124 REPORT BU	. 4
	LA. KITCH BU	in N. Alvarian

HAZARDOUS MATERIALS SPILL FOLLOW-UP REPORT

OEM Report Number: H940222 E Date of report: February 23, 1994

Company Name:

ETICAM

Address:

2095 Newlands Drive, East

City/State/Zip:

Fernley, Nevada 89408

Date/Time of spill:

15:15 hours February 22, 1994

Release Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8 County: Lyon

Material Spilled: Treatment Effluent

Amount: 3500 gallons

Description of the Incident:

Feb 22, 1994

At 15:15 hours on Tuesday effluent from a treatment process was spilled inside the ETICAM facility.

The spill occurred in the Dewatering area of the facility. It was caused by a steel sump grating falling over and striking an effluent tank valve assembly while an operator was replacing the grating over the sump. The valve assembly was broken off the tank, causing the spill.

It was determined that approximately 3500 gallons of treatment effluent had spilled. The spill occurred in the contained Dewatering area inside the facility.

An analysis of the spilled material is attached.

Clean-up Activities:

Clean up activities began at 15:45 hours and were completed at approximately 19:30 hours Tuesday February 22, 1994. The clean up consisted of pumping the spilled material into an empty effluent tank and rinsing and mopping the floors.

No injuries or exposures resulted from this incident.

Corrective Action:

The valve assembly was repaired and the tank made operational.

Corrective action as a result of this incident will include modification of the safeguards for the valve assemblies to prevent any recurrences of this type of incident.

HAZARDOUS MATERIALS SPILL FOLLOW-UP REPORT

Certifying Official/Title (print or type):

Bob Sherwood/Safety

Signed:

Date:

Send report to: Nevada Division of Emergency Management

Capitol Complex

ETICAM Laboratory Department

ETICAM

2095 Newlands Dr. E. Fernley, NV 89408 (702) 575-2760 FAX: (702) 575-2803 LABORATORY REPORT

ETICAM Lab Report #: 0294-281 Date Submitted: 02-19-1994

Sample ID: E-4; 9407-07A, 9408-03A, 9408-06A, 9408-02A

ANALYSES:

Metal determination by EPA Method 6010, SW-846. pH was determined by EPA Method 150.1. Cyanide determination was by colorimetric procedure of EPA Methods 9010, SW-846.

Analysis	Concentration mg/L
Element	
Aluminum	2.3
Boron	1.9
Calcium	0.2
Cadmium	<0.1
Chromium	0.7
Copper	7.1
Iron	0.4
Lead	0.3
Magnesium	18.3
Nickel	0.7
Phosphorus	37.5
Zinc	<0.1
Other Determinations	
Cyanide	<0.1
На	8.8

Analysis by: Anoruiqwe

Approved by:

John Kobza, Ph.D.

Laboratory Manager

Date: 02-19-94

Date: 02-28-94

HA LOOUS MATERIALS RE LAT

		LO RE JRI	: 1/
I.M Report No.: H - 94 (1) 22		NDEM Chief Review: Time Used:	
c. Feb 22 1994		Overtime Claimed:	
Summary: Open for	accidently	snocked a 9	rating
on a sump a	gainst a va	lue breaking	- 14
and Con sixog	501/10f 3	500 gallons	of trante
eft/vent, con	ita west in a c	oncrete atch	man to basa
_	No		
Report received at 400 (h	iours) by 6 Ozania	from Bab S	herwood
of ETI Carn			
Release type: Oil Cher		_	
Location of release: ETI (_	. ,	
Township: Range:			l on
Material(s) released: Tren Ven	1 Ettuent	·	
Date and Time of loss:	12494 5/5 Mea	ns of I.D.: Location	
Released to: Air Water 24	earth 🗆 Other:	Present state: 🗆 C	Gas 🗆 Liquid 🗆 Solid
Amount of loss: 3 100 ga			
	Other H		•
Precautions:			
Population endangered: Yes	No Number of people: Evacu	ated Injured	Dead
Evacuation from Factor	'	to on tolor	105
Location injuries occurred:			
Site data: Waterway(s) or Drainage	System(s) None		
Structures damaged: None			
	т		
Spiller Information: Did the Sp			
Company: <u>See 15</u> 2		(to not notify 100 on thank	-
Contact:			
Title III Facility No.:			
Luck or Railear No			
		C COMBINERNI	

OEM Report Number: H940126F Date of report: January 26, 1994

Company Name: ETICAM

Address: 2095 Newlands Drive, East City/State/Zip: Fernley, Nevada 89408

Date/Time of the incident: January 17, 1994

Incident Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8 County: Lyon

Material Involved: NO_x gas Amount: < 2 lbs.

Description of the Incident:

At approximately 15:30 hours on Monday NO_x gas was found present in the storage bay of the ETICAM facility following an offloading operation of waste to a storage tank. There was no material spilled.

The quantity of waste being offloaded was approximately 300 gallons. About an hour after the offloading operation, $NO_{\mathbf{x}}$ gas was noticed in the torage bay and was determined to be coming from the storage tank in which the waste was offloaded into. At that time the storage bay was closed off for personnel entry and the storage bay main scrubber damper was opened to maximize the scrubbing of the $NO_{\mathbf{x}}$ gas out through the main scrubber.

The peak concentration of NO_x gas in the storage bay was approximately 35 ppm at 21:00 hours on January 17, 1994. The storage bay was vented out through the main scrubber until the next day, January 18, 1994 when NO_x readings in the storage bay were below 5 ppm NO_x and at 0 ppm NO_2 at 18:30 hours.

The storage bay was cleared for entry at approximately 08:00 hours on January 19, 1994.

No injuries resulted and no hazard was presented outside of the facility.

Clean-up Activities:

There were no clean up activities required as a result of this incident.

Corrective Action:

The washout activity of the storage tank in which the NO_x gas evolved was completed by 10:00 hours on January 19, 1994. The mixing of the waste with the residue in the bottom of the tank was the probable cause of the NO_x gas evolution. To prevent future recurrences of this incident, thorough tank washouts will be performed.

Certifying Official/Title (print or type):

Send report to:

Nevada Division of Emergency Management

Capitol Complex

COMPLAINT/SPILL RE FORM STATE OF NEVADA DIV. OF ENVIRONMENTAL PROTECTION

DEM # <u>H 950222-C</u>	2///	
DATE OF INCIDENT:	4/35/95	TIME: 0915
DATE INCIDENT REPORTED:		TIME: /035
DO YOU WANT TO REMAIN ANONYMOUS? YES	NO X	*
REPORTING PERSON/AGENCY: Mickey &	Lawler - Etico	am
ADDRESS: 2095 E. Thewland D.A.	PHONE (70	121 <u>575-2760</u>
CITY: Flittley	\sim State N	V ZIP 89408
CONTACT PERSON:		
ADDRESS:	BUOVE /)
CITY:		ZIP
OWNER/OPERATOR OF FACILITY: Encom		
ADDRESS:	PHONE (1
CITY:	•	ZIP
		
LOCATION/ADDRESS OF COMPLAINT/SPILL: Sea	ding Alck CN	east oide
a aacuus		
CIPY: 6 CE MDON!	солиту: 📿	you
T/R/SEC: 1.2010 1.25 E, MDB/IN HWY	MARKER: RI	(MILE:
T/R/SEC: T.DON R.DSE, MDBMN HWY ? Sec 8 IMPACT/DISTANCE TO: SURFACE WATER TYPE OF MATERIAL DISCOVERED:	SUPPLY WELI	us <u>Ø</u>
CONCENTRATION: (ppm, ppb, %)		
QUANTITY FOUND: 20 pollurs of 3	nc - Cuonida (V. 10. 10.1/10/
CAUSE OF COMPLAINT/SPILL: Lading Lock	drum supped	* spilled
alter material spilled a	Cottom of Nan	p Where
FCO8- listed haste >	aspeal 1 hect	o encrete
REMEDIAL ACTION TAKEN: In medicate	containment.	Cleaned ly
Lixacicaging praterial & he		Linder Ly
J. J. A. A.	J. a. a. a.	and a regit
1-	QUA:	<u> </u>
CLEAN UP REFERRAL: FINC MCCIPA	y for Cornisor COHO	WCHD
ENFORCEMENT REFERRAL:	0 11,	
AGENCIES NOTIFIED: BLM USFS	OTHER	
COMMENTS: Ma inquires.		
		•
(FYI ONLY) CC:		
REPORT TAKEN BY: Dala Lang	·	
\mathcal{O}		Revised 08/11/94



To: File

From: M. Lawler

RE: Spill of 11/4/94

Called Jeff Denison at 6:40 pm (voice mail)
Called Lyon County Dispatch at 6:45pm
Marty Jensen called back at 7:00pm.
Called NHP at 7:30 pm, Mr. Goodfellow gave the OEM#
H94-1104E.

Drager results: HCN = 0.0 ppm; CN = 0.0 ppm.

Clean - up finished at 8:10 pm.

- Table of contents for analytical

 1. CN spill comp: analysis of soil that contains the caustic solution.
- 2. CN spill blank: analysis of the soil adjacent to the soil that contained the caustic solution.
- 3. Post clean up CN dist.: Analysis of soil at the area of the event after the clean up.
- 4. Final mopping of pavement: analysis of the liquid that was used to clean the pavement.
- 5. Dirtiest puddle: two days after the event. a rain puddle adjacent to the area was sampled and analyzed.
- 6. CN drum free liq.: analysis of the liquid that was in the drum that was jarred from the forklift.
- 7. CN spill metals: metals analysis of the soil that was cleaned up and containerized.

Weight of the soil that was cleaned up and containerized is 4989 pounds. Tracking is H94-1104-E.

Rinse solution during the mopping process was put into S-11 for processing.



HAZARDOUS MATERIALS SPILL FOLLOW-UP REPORT

OEM Report Number: H94-1104-E Date of report: 11-16-94

Company Name: ETICAM Address: 2095 No.

Address: 2095 Newlands Drive. East City/State/Zip: Fernley, Nevada 89408

Date/Time of the event:11/4/94 5:45pm

Event Location: Same as above

Township: .20N Range: .25E., MDB&M Section: 8 County: Lyon

Material Released: Caustic solution containing cyanide. Amount: 10 gallons

Description of the Incident: At approximately 5:45 pm on November 4. 1994 approximately 10 gallons of a caustic solution that contained 0.1 percent cyanide poured onto the driveway at the south end of the ETICAM facility. A small amount of the liquid ran off the driveway to the adjacent soil.

The solution was in an open top style poly-drum. The drum was lidded with a steel ring securely fastened.

The drum was being transported from the East loading dock to the truck bay for sampling of the material in the drum. During transfer, the forklift encountered bumps on the driveway, thereby jarring the drum free of the device attached to the forklift. The free liquid portion of the drum went onto the driveway. A small amount of the 10 gallons went to the adjacent soil.

Clean-up Activities: Absorbent was readily available and was spread immediately to contain and absorb the solution.

The soil from the dirt area affected was completely shoveled into containers along with the absorbent. The driveway was mopped with a mild KOH solution and then mopped several times with water. Analytical results for the samples of the final mop rinse and the final soil indicated total cyanide at less than one part per million. The clean-up activities were completed by 8:10 pm on 11/4/94.

Corrective Action: The Nevada Division of Preventative Safety will be contacted so that additional certified forklift training can take place at the Fernley facility. Also, berming the driveway is being assessed and evaluated for additional containment.

Signed:	Date:	

TO: Pat Enochs, General Manager

From: Eric Weldon, Chemist $\in \mathcal{W}$

Date: November 7, 1994

Re: Analysis of Cyanide Spill Sample of 11/4/1994

The following are the results of samples taken thoughout the cyanide clean-up of 11/4/1994.

All results are Total CN Distillations recorded in mg/kg (ppm). EPA Method 9010, SW 846.

CN Spill Comp sample: Sil Sample

CN Spill Blank sample: ND

Post Clean-up Comp sample: 0.6 **

Final Mopping of Pavement sample: <0.1

Run-off water (largest puddle) sample: <0.1

**Possible sample contamination from sampling apparatus.

ANALYTICAL LAB REQUEST R ANALYSIS

SAMPLE ID FOST CLE	MN UP CN DIST.	••••	LLB 10. 1194-0	47
LOG	SIEP		DATE/TIME 1/- 4.	9-/
SUBMITTED BY <u>Ew</u>			DATA FILE YUXBER	
PREIREATAERT	AA XETALS (NG/L)	PHYSICAL CHARACTERISTICS	SETERIAN	FIRE ASSAY VET SAMPLE
AS IS		STATE	ANI DIGEST	DRI SAMPLE G DIGEST/250ML
FILTERED		PH	FITAL VOL	ACID
p∄ <2		SG	[EIIPACI]	820
H ₂ O ₂		COLOR	[SAMPLE]	OYCID.
ICP METALS (MG/L)	AA R20 CATIONS	CH ANALISIS	UTITS	YCID +
73	(XG/L)	CY SPOI	XERCURI -	H ₂ O #
Al	Ya C	101AL 0.6	AXI DIGEST	OTCID 4
las i	I	NOI-TAEL	LIATE AOF	ACID I IR
Lu		TATATATE .	[EIIBTCI]	H ₂ O I IR
B	OIHER (NG/L)	UYIIS 7pm	(STABLE)	I MOISI.
Ва		ARSENIC	ANILIZ	DIGEST BY
Ca	C1 ₂	TAL DICEZI		DATE COMP
ca	IOC	FINAL VOL		
Cr	H ₂ O SOLUBLE IONS	[EIIRACI]		
Cu	(XG/L) .:	[SAXPLE]		
Ге	[C1	UNIIS		
ξ.	5			
Ji	103			
P	102			
? 6	501			
Se	PO.			
2 a	Cr6+			
YALIZED BI <u>E</u> W		DI	NE	
7 6 NJUNGGG				

ANALYTICAL LAB REQUEST R ANALYSIS

SLAPLE ID FINAL 1	MOPPING OF PAVEM	ENT	LAB 10	046
LOG	STEP		DATE/TIME <u>u ~ 7</u>	-9-1
SUBMITTED BY Em/	C		DATA FILE YUMBER	
PRETREATMENT	AA METALS (Mg/L)	PHYSICAL CHARACTERISTICS	SELENIUN	PER STABLE
AS IS		STATE	AXI DIGEST	DRY SAMPLE . G DIGEST/250ML
FILITATED		pН	LIMAT AOT	ACID
p3 <2		SG	[EIIRACI]	H ₂ 0
8202		COLOR	(SIXPLE)	
ICP METALS	11.7.0.4177070		UILIS	ÓYCID
(XG/L)	YY 850 CYIIORS	CT ATALYSIS	XERCURT	ACID #
As	Ya .	CX SPOI CO. 1	ANT DIGEST	H ₂ O #
<u>1</u> 1		IOIAL	FIYAL YOL	QACID #
As		AOA-TXEA	(EIIRYCI)	ACID 1 IR
7 n	OIRER (XG/L)	TAELTBFE	(STATE)	E20 I IR
В	XE ₃	made stirn		I MOIST.
Ba		ARSERIC	UTITS	DIGEST BY
Ca	Cl ₂	TAI DIEEZI		DATE COMP
Cd	066	FIRAL YOL		
Cr	Toc	[EIIRACI]		
cu	N₂O SQLUBLE IONS	[314875]		
Ге	Cl	UXIIS		
χε	F			
li	103			
2	102			
76	S01			
Se	POL			
Zn	C2 6+			
MALIZID BI EW		•	DATE	
			N1 * F	

ANALYTICAL LAB REQUEST 1 ANALYSIS

LOG	STEP		DATE/TIME	94
SUBNITTED BY <u>ew/</u>	76	1984 All-Derman	DATA FILE NUMBER	
PRETREATMENT	AA HETALS	PHYSICAL CHARACTERISTICS	SELENIUN	FIRE ASSAY VET SAMPLE
AS IS			THE DIEEZI	DRY SAMPLE
FILTERED		STATE	FINAL VOL	G DIGEST/250HL
pH <2		βĒ	[DITRACT]	ACID
		SG		H ₂ 0
R ₂ O ₂		COLOR	[SAMPLE]	QACID
ICP METALS			UNITS	
(XC/L)	AA H2O CATIONS (NG/L)	CH ANALYSIS	MERCURY	ACID #
Ag	N2	CH SPOT 13081-5	ANT DIGEST	H20 #
Al		TOTAL		QACID #
As	X .	NON-WARA	FINAL VOL	ACID X IR
Au			[EXTRACT]	
	OTHER (KG/L)	AMENABLE	[SAMPLE]	E20 I IR
В	RE 3	צוואט	UNITS	I HOIST.
Ba		ARSENIC	03110	DIGEST BY
Ca	Cl ₂	ANT DIGEST		DATE COMP
ca	080	FINAL VOL		
	TOC			
Cr	B ₂ O SOLUBLE IONS	[EXTRACT]		
Cu	(Ne/L) ····	[SAMPLE]		
Fe	Cl	UNIIS		
3 K	F	<u> </u>		
Vi.	¥0 ₃			
P	102			
Pb	504			
Se Se	PO			
Zn	Cr6+			

DATE ____

APPROVED BY

ANALYTICAL LAB REQUEST OR ANALYSIS

SAMPLE ID CN SPIC	LL com?		LAB 10	045
LOG	SILP		DATE/TIME	1-94
SUBMITTED BY EW			DATA FILE MUMBER	
	AA METALS (MG/L) AA H20 CATIONS (MG/L) I2 I OTHER (MG/L) IE2 Cl2 OSG TOC	PHYSICAL CHARACTERISTICS STATE PH SG COLOR CY AVALISTS CY SPOT TOTAL 23.0 YOT-AMEN AMERIBLE UNITS AMSENIC AMI DIGEST FINAL YOL [EMIRACT]		
Cu	(XG/L)	[SAMPLE]	,	·
Se .	Cl	UNIIS		
X ^g	7			
li	103			
5	102			
76	50.			
Se	POA			
Zn	Cr ⁶⁺			
APPROVED BY			DATE 11-3.54	

ANALYTICAL LAB REQUEST . R ANALYSIS

SAMPLE ID CH SP	ILL BLANK		LAB 10. 1194	-044
LOG	STEP		DATE/TIME 4.	7 54
SUBXITTED BY EW			DATA FILE NUMBER	, •
PREIREAIXEII AS IS	AA METALS (MG/L)	PHYSICAL CHARACTERISTICS	SELEVIUX	FIRE ASSAY VEI SAKPLE
FILITATED		STATE	FINAL VOL	G DIGEST/250KF
pH <2		p H	[EIIBTCI]	TCID
8202		COLOR	[SIMPLE]	0.010
ICP XETALS (XG/L)	AA B20 CATIONS	CY AVALISIS	UVIIS	FCID \$
A g	(X6/L)	CF SPOT	XERCASI	H ₂ O #
Al	I a	TOTAL ND	ANT DIGIST	6YCID 1
Ls		AOA-YXEA	[ETIRTCI]	ACID T IR
Lu	OIRER (XC\r)	TATATATE	[SAMPLE]	H20 I IR
B Ba	1H2	DAILS malka	UNITS	I MOISI.
Ca	¢1 ₂	ANY DIGEST	<u> </u>	DATE COMP
Cd	086	FINAL YOL		DAIL CON!
Cr	Toc	[EIIRACI]		·
Cu	(Xe/L) H2O SOLUBLE IONS	[SAYPLE]		
7 e	C1	TILES .		
Ϋ́ξ	ī			
Ii	103			
P Pb	F0 ₂	•		
Se	POA			
Zn	Cr6+		·	
FALIZED BI _ W			DATE	<i>(</i>
PPROVED BT			DATE	

ANALYTICAL LAB REQUEST OR ANALYSIS

LOG	SILL		DATE/TIME	7.94
SUBALITIED BI EL	J	*****	DATA FILE NUMBER	· · · · · · · · · · · · · · · · · · ·
PRETREATARI	AA METALS (MG/L)	PHYSICAL CHARACTERISTICS	SELEVIUX	FIRE ASSAY
AS IS		STATE	AXI DIGEST	DRI SAXPLE
FILTERED			FINAL YOL	G DIGEST/2501
p∏ <2		PA	[EIIBYCI]	ACID
1202		SG	[SAMPLE]	H ₂ O
ICP XITALS		COFOX	UNITS	QACID .
(XG/L)	- (Xe/r) AT #50 CYLIOAS	CT AVALISES	XERCURT	ACID #
15		CA 2501 50 1		E20 #
Al	_ Ia	TOTAL	AXT DIGEST	67CID \$
ls	I I	AOX-TAEA	FINAL YOL	TCID I IB
lu		AMENABLE	(EIIRICI)	820 1 12
3	OINER (Xe/L)		[STABLE]	
	YE 3	//	UNIIS	I MOISI.
Ba	Cl ₂	ARSERIC		DIGEST BY
a	086	AXI DIGISI		DAIE COMP
24	700	FINAL VOL		
\r \ \	H ₂ O SOLUBLE IONS	[EIIBYCI]		
Cu	(XG/L)	(SAMPLE)		
	[c1	UNITS		
Į.	<u> </u>			
i	103			
	NO ₂			
b	201	•		
¢	POL	·		
۵	Cr ⁶⁺			

ANALYTICAL LAB REQUEST JR ANALYSIS

SAMPLE ID CH SPILL	METALS	- Andrews - Andr	LAB 10	1-147
Log	STEP		DATE/TIME	
SUBMITTED BY CO			DATA FILE YUXBER	318 C/
LABELLAEYLYEAL	AA METALS (Mg/l)	PHYSICAL CHARACTERISTICS	KUINZIZZ	FIRE ASSAY VET SAMPLE
AS IS		STATE	AXI DIGESI	DRY SAMPLE G DIGEST/250ML
FILIERED		ри	FINAL YOL	
9		<u> </u>	[EXIMACI]	
H ₂ O ₂		SG	[SAMPLE]	H ₂ 0
TOP METALS		COFOS	UNITS	ÓYCID
(XG/L)	AA H2O CATIOYS (XG/L)	CA TATTISIS	XERCURT	ACID + Ce
4 0.4	Ta Ta	CF SPOI		B ₂ O #
11 79.0		TOTAL	AXT DIGEST	OYCID \$
ls 0.3	I	AOX-TAEA	LIATE AOF	ACID I IR
1		TAEATBIE	[EIIRICI]	H ₂ O I IR
B NA	OINER (NG/L)	UYIIS	(STABFE)	I NOISI. 10.1
32 0.0	117	ARSENIC	UNITS	
0.5	C1 ₂	TAI DIEEZI		DIGEST BY MH
19.4	086			DATE COMP 11-11-04
0.1	TOC	FINAL FOL		n do m
Cr 0.2	H2O SOLUBLE IONS	[EIIRYCI]		No Hzoz step
cu 159.3	(X6/L)	[SAMPLE]	Rec	Pic_
Te 175.1	Cl	UNIIS		
32.0	Γ			
0.8	10,			
92.0	¥0 ₂			
9.3	501			
ie 0, 3	POA			
, [C16+		·	
2.4				
IALIZED BY DE			DATE _11-14-94	

DATE ____

TE G3Ko5dd

```
1194-147 1/10
                                   REPLICATE
                                                         # 1
                                                                   1550 11/14/94
                 AsT
                                  -0.056
                                                            peak-noisy
                 SeT
                                  -0.008
                                                            peak-noisy
                 MoT
                                   0.008
                                                            peak-noisy
                 CrT
                                   0.008
                 ZnT
                                   0.254
                 CdT
                                   0.010
                                                            peak-noisy
                 PT
                                   8.882
                                                            window-edge
                 PbT
                                   0.901
                 CoT
                                  -0.004
                                                            peak-noisy
                 NiT
                                   0.083
                 BaT
                                   0.048
                 BT
                                  -0.072
                 FeT
                                  17.961
                 MaT
                                   3.263
                 AlT
                                   8.019
                 CaT
                                   8.171
                 CuT
                                  16.245
                 AgT
                                   0.025
                                                            peak-noisy
                 ScT
                           EM
                                  320938
1194-147
                   1/10
                                   REPLICATE
                                                         #2
                 AsT
                                   0.116
                                                            peak-noisy
                 SeT
                                   0.068
                 MoT
                                   0.002
                                                            peak-noisy
                 CrT
                                  0.025
                 ZnT
                                  0.234
                 CdT
                                  0.012
                                                            peak-noisy
                 PT
                                  9.523
                                                            window-edge
                 PbT
                                  0.958
                 CoT
                                  0.000
                                                            window-edge
                 NiT
                                  0.079
                                                            peak-noisy
                 BaT
                                  0.042
                 BT
                                 -0.092
                 FeT
                                 17.053
                 MgT
                                  3.141
                 AlT
                                  7.786
                 CaT
                                  7.741
                 CuT
                                 15.620
                 AgT
                                  0.052
                                                            peak-noisy
                 ScT
                           EM
                                 317138
                 AsT
                           ΑV
                                  0.030
                                          SD
                                                0.1216
                                                        CV
                                                              402.61
                 SeT
                           AV
                                  0.030
                                          SD
                                                0.0538
                                                              177.43
                                                        CV
                MoT
                                  0.005
                                                0.0042
                                                               92.37
                           ΑV
                                          SD
                                                        CV
                 CrT
                           ΑV
                                  0.016
                                          SD
                                                0.0118
                                                        CV
                                                               71.81
                 ZnT
                           ΑV
                                  0.244
                                          SD
                                                0.0147
                                                        CV
                                                                6.03
                 CdT
                           ΑV
                                  0.011
                                          SD
                                                0.0010
                                                        CV
                                                                9.39
                 PT
                           ΑV
                                  9.203
                                          SD
                                                0.4535
                                                        CV
                                                                4.93
                 PbT
                           ΑV
                                  0.930
                                          SD
                                                0.0407
                                                        CV
                                                                4.38
                                 -0.002
                 CoT
                           ΑV
                                          SD
                                               0.0033
                                                        CV
                                                              162.48
                NiT
                           AV
                                  0.081
                                          SD
                                               0.0031
                                                        CV
                                                                3.79
                 BaT
                           ΑV
                                  0.045
                                          SD
                                               0.0042
                                                        CV
                                                                9.18
                 BT
                                 -0.082
                                               0.0144
                                                               17.56
                           ΑV
                                          SD
                                                        CV
                FeT
                                 17.507
                           ΑV
                                          SD
                                               0.6419
                                                                3.67
                                                        CV
                MgT
                          ΑV
                                  3.202
                                          SD
                                               0.0866
                                                        CV
                                                                2.70
                AlT
                                  7.903
                          ΑV
                                          SD
                                               0.1653
                                                        CV
                                                                2.09
                                  7.956
                 CaT
                           ΑV
                                          SD
                                               0.3044
                                                        CV
                                                                3.83
                 CuT
                          ΑV
                                 15.932
                                          SD
                                               0.4422
                                                        CV
                                                                2.78
                AgT
                          ΑV
                                  0.039
                                          SD
                                               0.0189
                                                        CV
                                                               48.95
```

ΑV

ScT.

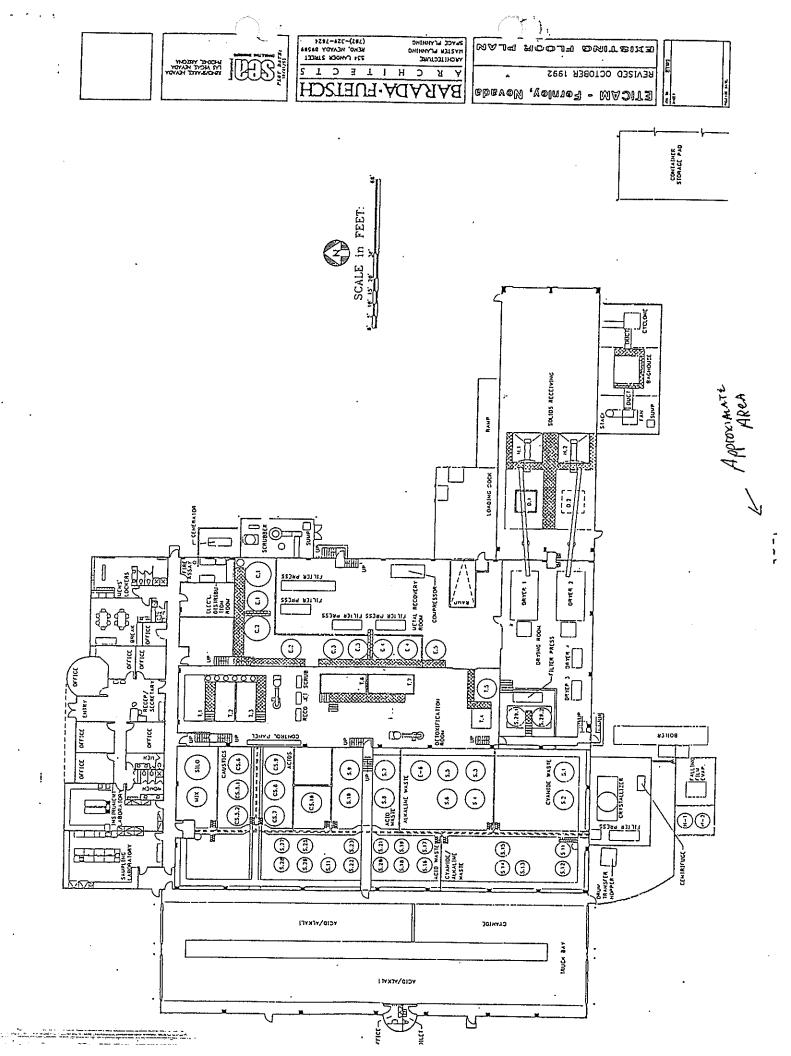
319038.0

SD

2687.0

CV

0.8



	K.

ETICAM, Fernley, Nevada

11.00 Closure Plan and Closure Cost Estimate

11.92.8 SUPERVISION AND CERTIFICATION BY REGISTERED ENGINEER

1) Periodic inspection during closure activities by an independent engineer, 20 hours x \$75/hour \$ 1,500.00

 $+ s_{2} + s_{3} + s_{4} + s_{4} + s_{4} + s_{5} + s_{4} + s_$

2) Preparation of certification of closure, 2 hours at \$75/hour 150.00

Subsection 11.92.8 Subtotal \$ 1,650.00

11.93 CONTINGENCIES

The sum of costs in Sections 11.91 through 11.92.8 \$ 363,162.90

A 12.5% provision is made for contingencies that may arise during closure operations. Although all attempts have been made to include all possible closure costs, this 10% provision has been added to account for any anticipated contingencies

11.94 CURRENT ESTIMATED CLOSURE-COST

The total closure cost is therefore the sum of costs in Section 11.91 through 11.93 which is

...... \$ 408,558.26

11.95 ADJUSTMENTS TO CLOSURE COST

ł

Each year (i.e., December) ETICAM will adjust the closure cost estimate by recalculating the cost of closure in current dollars, or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its "Survey of Current Business", as specified

OF INSURANCE THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE ROLLINS HUDIG HALL OF R.I., INC POLICIES BELOW. 111 WESTMINSTER STREET COMPANIES AFFORDING COVERAGE SUITE 1600 PROVIDENCE, RI 02903 COMPANY A 401-331-7700 LETTER COMMERCE & INDUSTRY INS CO COMPANY B INSURED LETTER ETICAH, INC. COMPANY C 2095 NEWLANDS DRIVE E. LETTER FERNLEY COMPANY D LETTER NV 89408 COMPANY E LETTER COVERAGES THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS. EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. CO POLICY EFFECTIVE POLICY EXPIRATION TYPE OF INSURANCE POLICY NUMBER

LTR	TIPE OF INSURANCE	POLICY NUMBER	DATE (MM/DD/YY)	DATE IMM/DD/YY)	(YY) LIMITS		
GEI	NERAL LIABILITY				GENERAL AGGREGATE	5	1000000
A X	COMMERCIAL GENERAL LIABILITY	YGLCM3405073	8/01/94	8/01/95	PRODUCTS-COMP/OP AGG.	\$	1000000
	. X CLAIMS MADE OCCUP	₹.			PERSONAL & ADV. INJURY	\$	1000000
*	OWNER'S & CONTRACTOR'S PRO	т.			EACH OCCURRENCE	5	1000000
					FIRE DAMAGE (Any one fire)	s	50000
					MED. EXPENSE (Any one person)	\$	5000
A K	TOMOBILE LIABILITY ANY AUTO	CA2771728	8/01/94	3/01/95	COMBINED SINGLE	s	1000000
	SCHEDULED AUTOS				BODILY INJURY (Per person)	5	
	HIRED AUTOS				BODILY INJURY (Per accident)	s	
	GARAGE LIABILITY				PROPERTY DAMAGE	s	
	ESS LIABILITY				EACH OCCURRENCE	\$	4000000
A X	UMBRELLA FORM OTHER THAN UMBRELLA FORM	UL7733840	8/01/94	8/01/95	AGGREGATE	\$	4000000
	WORKER'S COMPENSATION				STATUTORY LIMITS		
	AND				EACH ACCIDENT	s	
	EMPLOYERS' LIABILITY	•			DISEASE-POLICY LIMIT	\$	
	Emi co (Ello Ello)Ell (DISEASE-EACH EMPLOYEE	s	
EΑ	ELUTION LIABILI CH LOSS LIMIT	5290614 \$3,000,000 \$6,000,000	8/01/94	8/01/95	\$250,000 DEDU EACH LDSS	CT.	IBLE
DECODIO	71011 00 0000 101010 000 001010						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

FOR INFORMATIONAL PURPOSES ONLY

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

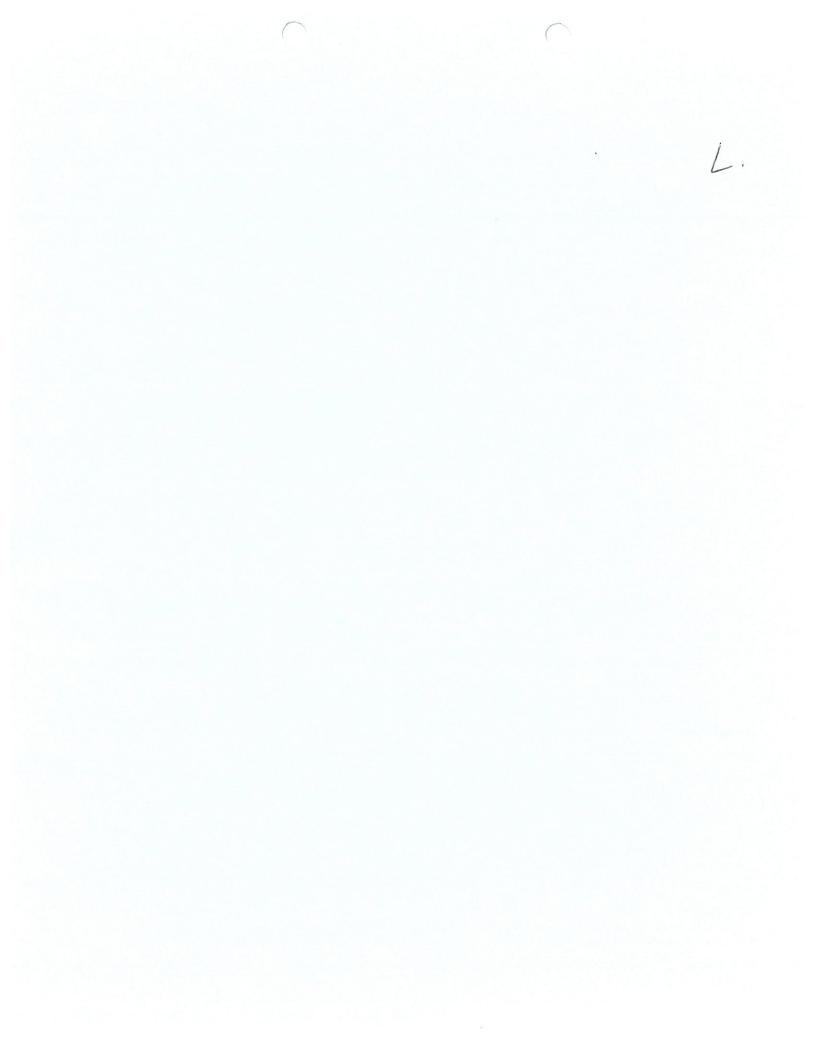
AUTHORIZED REPRESENTATIVE

051084000

ACORD 25-S (7/90)

CACORD CORPORATION 1990

化分散 医皮皮皮皮皮结合物



				-							_	
INSPECTOR: Son Tidwelf DATE; 3-28-95 TIME 10:00 Inspector's Signature	Truck Bay	٩	tox	Dewatering	Drying Area	,	nance	Crystallizer	بد	Outside Grounds		ont. Storage
Emergency Eyewash/Shower Stations										х	Х	x
Openhead Drums		х	Х	Х	х	х	Х	Х	х	х	Х	
Shovels		X	X	х	Х	х	Х	х	х	Х	X	X
Absorbent		Х	Х	Х	Х		Х	Х	х	Х	х	X
Fire Extinguishers								-		X	Х	X
Gas Monitors	Х			Х	Х	х	х	х			Х	x
5 Minute Escape Packs				Х	Х		x	х		X	х	X
Sumps Empty				丛			X		Х	7		
Tank Leaks/Damage/Deterioration				P		Х	х			<u>/</u> X	х	Х
Pipe Leaks/Damage/Deterioration						х	x			Х	Х	Х
Pump Leaks/Damage/Deterioration							X				Х	X
Condition of Floor										Х	Х	X
Waste Storage-Container Leaks/Condition							x					
Aisleways - Truck Bay Waste Storage		Х	х	Х	х	х	x	х	x	х	х	Х
Stacking	1'	Х					x					
Haz Waste Label (where applicable)						1	х		x			
Yardage Marked on Containers		х	х	х	x	x	х	x	x	х	Х	х
Unauthorized Spills/Residues					5					8		
Aisle Ways-All Other Areas		1								X		
Raw Material Storage							Х		_		Х	_
Scrubbers Operating Properly	х	х			х	x	Х	x	x	x	Х	x
Alarms & Controls Operational/Restored/Accessible							Х	x		x	x	х
Housekeeping		B 3	2			6	-	-		a		
Other	1	-		-	+		-	-	- 			

DAILY INSPECTION CONTINUATION SHEET

INSPECTOR: La Lichere //	_
DATE: 2 28 95	_
INSPECTOR'S SIGNATURE	_

T			
#	DESCRIPTION OF PROBLEM	REMEDY	DATE CORRECTED
1	Truck Bay overpacks stacked		
2	Behined TH Need cleanel		
3	Worth Bern needs deand		
4	Sump behined C2 Alarm Not warking		
5	29.1-29.2 barn Needs cleand		
6	Sluge Reciving Weed elend		,
2	out side sumps Need pund		
8	spill by outside ramp		
9	out side Ramp Need's sweep		
10	inside name Needs SWED		
		د	
-			
			

CONTAINER STORAGE PAD LOG SHEET

INSF	ECTOR:			SIGNED:			
	ROW NUMBER	SIDE OF ROW	NUMBER ON DRUM	NUMBER OF DRUMS IN FROM END	TOP BOTTOM	REMEDY	
EX.	47	W	B93-101	11	Т	(Leave Blank)	_
			/				
			1 917 —	Band			-
		- V V		WIIA			
							7
	·						
-							
-						126	
-							

	1	1



FAX MEMO

From: Mickey LAWIEL	_ Date	: 3-15-9	Pa	ges: 2	
To: US EPA Region 9	Attn:/	Don Ntuyen	/ Fax#	*	
RE: <u>SORRT FOR</u> any Questions an	The	Delay.	IF	Haere	QA
any Questions an	rd for	comments,	PKALL	let m	e Ku
	<u> </u>		-11	ANX	1
			-		,

2095 Newlands Dr. E. • Fernley, Nevada 89408 Telephone (702) 575-2760 • 1-800-648-9931 • Fax (702) 575-2803 EPA #NVD 980895338

Date: 04-21-94

ATTACHMENT - D

ETICAM Laboratory Department ETICAM

2095 Newlands Dr. E. Fernley, NV 89408 (702) 575-2760 FAX: (702) 575-2803

LABORATORY REPORT

Report To: USPCI

Grassy Mountain Facility 8969 North Highway 40

Salt Lake City, Utah 84122-9998

Lab Report #: 0494-291

Date/Time Submitted: 04-18-1994/0850

COC #: 94050B

Sampled by: Richard Swank
Sample ID: Bin 20481
Manifest #: 94000609

ANALYSES:

Metal extracted by TCLP outlined in EPA Method 1311, 40 CFF part 261, Appendix II, Rev. June 29, 1990. Metal determination by Methods 6010, 7061, 7470, and 7741, SW-846. Cyanide determined by Method 9010, SW-845.

Metals by TCLP

Metals	mg/L	Detection Limit		
Arsenic	<0.001	0.001		
Bayium	0.528	0.100		
Cadmium	0.245	0.010		
Chromium	0.885	0.040		
Lead	0.144	0.050		
Mercury	<0.001	0.001		
Nickel	0.650	0.050		
Setenium	0.109	0.001		
Silver	0.019	0.010		

Cyanide (mg/kg)

Total (0.5 0.500 Amenable (0.5 0.500

Analysis by: Chavis, Ehrhart, Snyder

Approved by: \(\frac{1}{\text{th}}\) \(\frac{1}{\text{

Laboratory Manager



Jean E. Daniel
U.S. Environmental Protection Agency
Region IX
Hazardous Waste Management Division
75 Hawthorne Street
San Francisco, CA 94105

March 10, 1995

RE: MARCH 1, 1995 INSPECTION

Dear Ms. Daniel:

The following is the information for the items that were requested:

- 1. The steel cage located in the Southwest area by Maintenance Storage during the March 1, 1995 inspection was being used to empty metal hydroxide concentrates into our feed hopper (please see attached map). The employee had completed his task and was transporting the steel cage to the truck bay (see attached map) for decontamination. The employee saw that the inspectors were in the Truck Bay and was intimidated. He dropped the steel cage by the roll up door and continued to perform his next job function. At approximately 3:30 pm, the unit was decontaminated and placed in a secure area in the truck bay (Please see the photographs of the decontaminated cage and the cleaned area where the cage was left).
- 2. During the March 1, 1995 inspection, one suspected leaking drum and three potentially leaking containers were noticed on the Product Storage Pad located in the southeast portion of the site. These containers contained various metal concentrates for recycling. When the containers were identified, a crew was immediately assigned to rectify the problem. The potentially leaking drum (Row 15) was overpacked into an eighty-five gallon polyethylene DOT approved salvage drum (see photographs). The three bags (Row 22 and 23) were taken off the product pad and brought into the facility. They were then transferred into poly double-lined DOT approved supersacks (see photographs).
- 3. During the inspection on March 1, 1995, there were poly drums containing nonvolatile organic salts. This material is a byproduct of our effluent evaporation -

والتناف وهاد المشيئة وأرهمي والهادية

Jean E. Daniel
U.S. Environmental Protection Agency
Region IX
Hazardous Waste Management Division

PAGE 2

distillation process. The effluent which normally meets NPDES discharge standards is recycled/evaporated from our distinctive process. This material is composed of nonvolatile organics which are used for the chelation of metals in plating processes and photochemistry.

The effluent produced at the Fernley facility is processed through a Falling Film - Crystallizer system in which the aqueous effluent is evaporated and then re-distilled into ultra pure demineralized water. The organic and inorganic salts are isolated from the effluent by using a filter-press (liquid/solid separation) or by concentrating this material into a brine solution, thereby achieving material minimization. The material, depending upon the physical state, is then transferred into the appropriate containers and staged for proper shipment to a secure landfill (Subtitle C). Attachment D shows an analysis of the salts. The analysis indicates the TCLP values.

In addition, there was a drum, adjacent to the containers listed above, with a label that had been weathered off. The drum was immediately re-labeled indicating its proper contents (see the attached photographs).

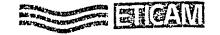
If you have any questions and/or comments, please give me a call at 1-800-648-9931.

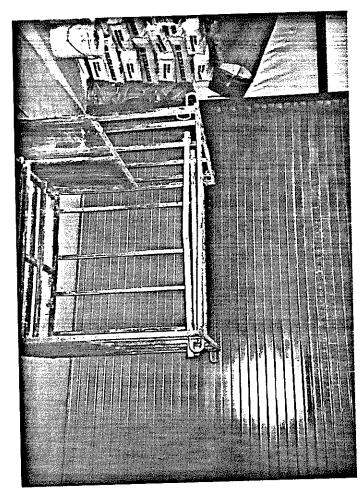
Sincerely,

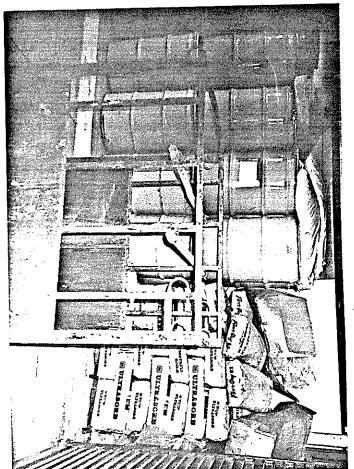
Mickey Lawler

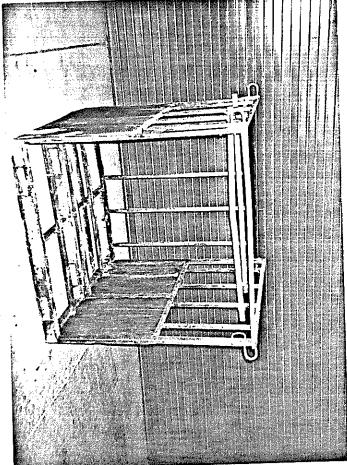
Environmental Manager

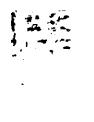
cc: file







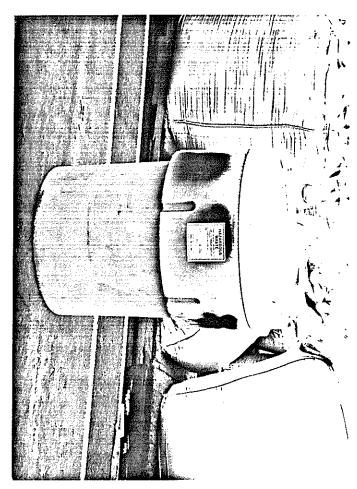


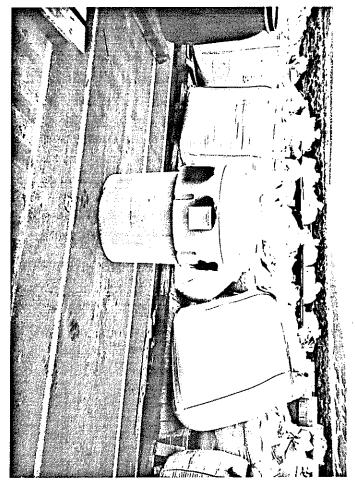


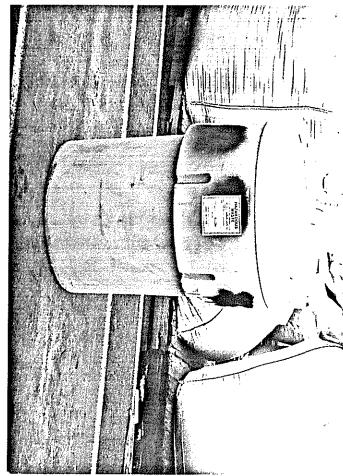


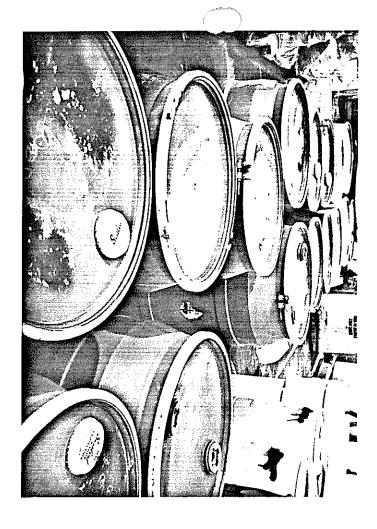






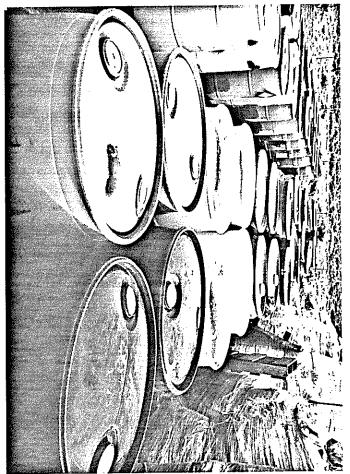


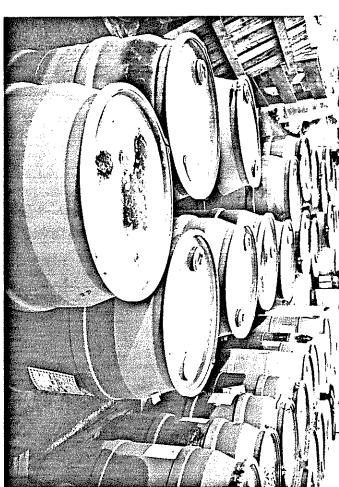




-

Ł









(

